



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUHITA ADAK

Roll No. 200311600133

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	9	6	54	2020	9.00	8.82	Q
		CC-2	Mechanics	9	6	54	2020			
	MATHEMATICS	GE-1	Differential Calculus	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	8	4	32	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	10	6	60	2021	10.00	9.70	Q
		CC-4	Waves and Optics	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	10	2	20	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	10	6	60	2021	9.33	9.00	Q
		CC-6	Thermal Physics	9	6	54	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	CHEMISTRY	GE-3	Chemical Energetic, Equilibria, Organic Chemistry	8	6	48	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	6	6	36	2022	6.33	7.08	Q
		CC-9	Elements of Modern Physics	7	6	42	2022			
		CC-10	Analog Systems & Applications	6	6	36	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	PHYSICS	SEC-2	Electrical Circuits and Network Skills	8	2	16	2022			
V	PHYSICS	CC-11	Quantum Mechanics and Applications	7	6	42	2022	8.00	8.00	Q
		CC-12	Solid State Physics	9	6	54	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	8	6	48	2022			
		DSE-2	Classical Dynamics	8	6	48	2022			
		DSE-3	Nuclear and Particle Physics	6	6	36	2023			
VI	PHYSICS	CC-13	Electromagnetic Theory	6	6	36	2023	6.25	6.25	Q
		CC-14	Statistical Mechanics	7	6	42	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	6	6	36	2023			
		DSE-4	Astronomy and Astrophysics	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.89</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.08</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ABHIJIT HAZRA

Roll No. 200340900001

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.18	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.60	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	5.75	5.75	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	6	6	36	2023	7.00	7.00	Q
		CC-14	Physical Chemistry-IV	6	6	36	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	7	6	42	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.78</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.93</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ABHIRUP ROY

Roll No. 20034090002

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	7	6	42	2020	7.50	7.36	Q
		CC-2	Algebra	8	6	48	2020			
	COMPUTER SCIENCE	GE-1	Problem Solving using Computer	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.90	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.69	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.67	9.69	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	5.50	5.50	Q
		CC-12	Mechanics I	5	6	30	2022			
	MATHEMATICS	DSE-1	Point Set Topology	6	6	36	2022			
		DSE-2	Probability & Statistics	4	6	24	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	5	6	30	2023	6.00	6.00	Q
		CC-14	Ring Theory and Linear Algebra II	4	6	24	2023			
	MATHEMATICS	DSE-3	Group Theory II	6	6	36	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.50</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.70</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ADITI BHANDARI

Roll No. 200340900003

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	7.91	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.60	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	6	6	36	2022	5.00	5.00	Q
		CC-12	Genetics	5	6	30	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	5	6	30	2022			
		DSE-2	Parasitology	4	6	24	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	6	6	36	2023	5.75	5.75	Q
		CC-14	Evolutionary Biology	5	6	30	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	6	6	36	2023			
		DSE-4	Endocrinology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.28</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.51</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : AKASH KUNDU

Roll No. 200340900004

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	9	6	54	2020	8.50	8.18	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.60	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	8.67	8.77	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	8	6	48	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	4	6	24	2022	5.00	5.00	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	6	6	36	2022			
		DSE-2	Analytical Methods in Chemistry	5	6	30	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	6	6	36	2023	7.25	7.25	Q
		CC-14	Physical Chemistry-IV	6	6	36	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.61</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.80</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANAMIKA TA

Roll No. 200340900007

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	9.00	8.18	Q
		CC-2	Ecology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	9.00	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	9.00	9.31	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	6	6	36	2022	6.00	6.00	Q
		CC-12	Genetics	7	6	42	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	6	6	36	2022			
		DSE-2	Parasitology	5	6	30	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	6	6	36	2023	6.00	6.00	Q
		CC-14	Evolutionary Biology	5	6	30	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.67</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.93</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

= (SGPA or CGPA × 10) - 5.0  
 \*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANIK HATI

Roll No. 200340900008

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	8.45	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	10	6	60	2021	10.00	9.30	Q
		CC-4	Discrete Structure	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.08	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	9.54	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	8	6	48	2022	8.25	8.25	Q
		CC-12	Theory of Computation	8	6	48	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	8	6	48	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.33</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.07</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANIKET SAMUI

Roll No. 20034090009

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.36	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	8.67	8.77	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	8	6	48	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	6.75	6.75	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	8	6	48	2022			
		DSE-2	Analytical Methods in Chemistry	8	6	48	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	8	6	48	2023	7.75	7.75	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	7	6	42	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.11</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.23</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANIMESH RUIDAS

Roll No. 200340900010

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	8	6	48	2020	7.50	7.82	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ZOOLOGY	CC-3	Non-chordates II	8	6	48	2021	8.00	8.30	Q
		CC-4	Cell Biology	8	6	48	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	9.67	9.54	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	8.00	8.00	Q
		CC-12	Genetics	9	6	54	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	7	6	42	2022			
		DSE-2	Parasitology	8	6	48	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	9	6	54	2023	7.75	7.75	Q
		CC-14	Evolutionary Biology	6	6	36	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	8	6	48	2023			
		DSE-4	Endocrinology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.33</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.45</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANIRBAN KULE

Roll No. 200340900011

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.73	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	8.50	8.40	Q
		CC-4	Organic Chemistry-II	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021			
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.23	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	10	6	60	2022			
	CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022			
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	6.00	6.00	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	6	6	36	2022			
		DSE-2	Analytical Methods in Chemistry	7	6	42	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	9	6	54	2023	8.00	8.00	Q
		CC-14	Physical Chemistry-IV	6	6	36	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.94</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.08</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANIRBAN GAYEN

Roll No. 200340900012

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	8	6	48	2020	8.50	8.09	Q
		CC-2	Environmental Biology	9	6	54	2020			
	BOTANY	GE-1	Biodiversity (Microbes, Algae, Fungi and Archegoniatae)	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	9	6	54	2021	9.00	9.00	Q
		CC-4	Environmental Physics	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	10	6	60	2021	9.67	9.69	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022	9.33	9.00	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	8	6	48	2022			
	BOTANY	GE-4	Plant Physiology and Metabolism	8	6	48	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Microbiological Techniques	9	2	18	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	9	6	54	2022	8.75	8.75	Q
		CC-12	Environmental Engineering & Statistics	8	6	48	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	9	6	54	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	9	6	54	2023	8.50	8.50	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	8	6	48	2023			
		DSE-4	Solid Waste Management	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.94</b>							Letter Grade in CGPA : <b>A+</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.86</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANJAN GHOSHAL

Roll No. 200340900013

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.00	8.73	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	10	6	60	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.60	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.33	9.00	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.33	8.85	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022			
	MATHEMATICS	SEC-2	Graph Theory	7	2	14	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	6.50	6.50	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	7	6	42	2022			
		DSE-2	Probability & Statistics	6	6	36	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	9	6	54	2023	8.00	8.00	Q
		CC-14	Ring Theory and Linear Algebra II	5	6	30	2023			
	MATHEMATICS	DSE-3	Group Theory II	9	6	54	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.44</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.42</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

= (SGPA or CGPA × 10) - 5.0  
 \*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANKHI DEY

Roll No. 200340900014

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	8	6	48	2020	8.50	8.18	Q
		CC-2	Archegoniatae	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	9	6	54	2021	9.00	8.60	Q
		CC-4	Morphology and Anatomy of Angiosperms	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	8	6	48	2021	8.67	8.69	Q
		CC-6	Plant Systematics	9	6	54	2021			
		CC-7	Economic Botany	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
	BOTANY	SEC-1	Agricultural Botany	8	2	16	2021			
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	9.33	9.23	Q
		CC-9	Biomolecules and Cell Biology	9	6	54	2022			
		CC-10	Molecular Biology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	BOTANY	SEC-2	Biofertilizers	9	2	18	2022			
V	BOTANY	CC-11	Plant Physiology	9	6	54	2022	8.50	8.50	Q
		CC-12	Plant Metabolism	8	6	48	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	9	6	54	2022			
		DSE-2	Natural Resource Management	8	6	48	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	9	6	54	2023	8.75	8.75	Q
		CC-14	Plant Biotechnology	9	6	54	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	8	6	48	2023			
		DSE-4	Industrial and Environmental Microbiology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.78</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.68</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ANWESHA PANJA

Roll No. 200340900015

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	9	6	54	2020	9.00	8.45	Q
		CC-2	Archegoniatae	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	10	6	60	2021	9.50	9.30	Q
		CC-4	Morphology and Anatomy of Angiosperms	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	7	6	42	2021	7.67	8.15	Q
		CC-6	Plant Systematics	7	6	42	2021			
		CC-7	Economic Botany	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
BOTANY	SEC-1	Agricultural Botany	7	2	14	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	8.33	8.54	Q
		CC-9	Biomolecules and Cell Biology	7	6	42	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
BOTANY	SEC-2	Biofertilizers	9	2	18	2022				
V	BOTANY	CC-11	Plant Physiology	8	6	48	2022	7.00	7.00	Q
		CC-12	Plant Metabolism	6	6	36	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	7	6	42	2022			
		DSE-2	Natural Resource Management	7	6	42	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	8	6	48	2023	8.00	8.00	Q
		CC-14	Plant Biotechnology	8	6	48	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	8	6	48	2023			
		DSE-4	Industrial and Environmental Microbiology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.06</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.21</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ARGHYA MANDAL

Roll No. 200340900017

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	7	6	42	2020	7.50	7.45	Q
		CC-2	Algebra	8	6	48	2020			
	COMPUTER SCIENCE	GE-1	Problem Solving using Computer	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.33	8.77	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	7	6	42	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	9	6	54	2022	9.00	9.23	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	9	6	54	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	6.25	6.25	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	6	6	36	2022			
		DSE-2	Probability & Statistics	6	6	36	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	5	6	30	2023	6.75	6.75	Q
		CC-14	Ring Theory and Linear Algebra II	6	6	36	2023			
	MATHEMATICS	DSE-3	Group Theory II	7	6	42	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.78</b>							Letter Grade in CGPA : <b>A</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.92</b>										


Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ARPITA ROY

Roll No. 200340900020

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.50	8.91	Q
		CC-2	Algebra	10	6	60	2020			
	COMPUTER SCIENCE	GE-1	Problem Solving using Computer	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	10	6	60	2021	10.00	9.54	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	10	6	60	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	10	2	20	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.67	9.69	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	9	6	54	2022	7.50	7.50	Q
		CC-12	Mechanics I	7	6	42	2022			
	MATHEMATICS	DSE-1	Point Set Topology	7	6	42	2022			
		DSE-2	Probability & Statistics	7	6	42	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023	7.75	7.75	Q
		CC-14	Ring Theory and Linear Algebra II	6	6	36	2023			
	MATHEMATICS	DSE-3	Group Theory II	8	6	48	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.72</b>							Letter Grade in CGPA : <b>A+</b>		Result : <b>Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.75</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ASHRI DE

Roll No. 200340900021

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.00	8.27	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.33	9.00	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.67	9.46	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	6.00	6.00	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	7	6	42	2022			
		DSE-2	Probability & Statistics	4	6	24	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023	7.00	7.00	Q
		CC-14	Ring Theory and Linear Algebra II	5	6	30	2023			
	MATHEMATICS	DSE-3	Group Theory II	7	6	42	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.06</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.13</b>										


Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs <5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ASISH KANRI

Roll No. 200340900022

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	7.50	7.36	Q
		CC-2	Physical Chemistry-I	7	6	42	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	8	6	48	2021	8.00	8.10	Q
		CC-4	Organic Chemistry-II	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	8	6	48	2021	8.67	8.54	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	8.69	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	8	2	16	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	5.75	5.75	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	6	6	36	2023	7.25	7.25	Q
		CC-14	Physical Chemistry-IV	6	6	36	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.56</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.63</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ASTIK PALUI

Roll No. 200340900023

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	8.45	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.70	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	10	6	60	2021	9.67	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.33	9.31	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	9	6	54	2022	9.25	9.25	Q
		CC-12	Theory of Computation	9	6	54	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	10	6	60	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.39</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.15</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	*Letter Grade in CGPA is awarded on the basis of CCs and DSEs
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : **BIMAL MANDI**Roll No. **200340900025**

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.91	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	8	6	48	2021	8.00	8.10	Q
		CC-4	Organic Chemistry-II	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	8	6	48	2021	8.67	8.77	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	8	6	48	2022	8.67	8.69	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	8	2	16	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	4	6	24	2022	4.50	4.50	Q
		CC-12	Organic Chemistry-V	4	6	24	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	5	6	30	2022			
		DSE-2	Analytical Methods in Chemistry	5	6	30	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	5	6	30	2023	6.50	6.50	Q
		CC-14	Physical Chemistry-IV	5	6	30	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	7	6	42	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.11</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.42</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : BISHWAKETAN MUDI

Roll No. 200340900027

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	8	6	48	2020	8.00	7.91	Q
		CC-2	Archegoniatae	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	8	6	48	2021	8.50	8.70	Q
		CC-4	Morphology and Anatomy of Angiosperms	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	8	6	48	2021	8.00	8.38	Q
		CC-6	Plant Systematics	8	6	48	2021			
		CC-7	Economic Botany	8	6	48	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
BOTANY	SEC-1	Agricultural Botany	7	2	14	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	8.67	8.54	Q
		CC-9	Biomolecules and Cell Biology	8	6	48	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022			
BOTANY	SEC-2	Biofertilizers	9	2	18	2022				
V	BOTANY	CC-11	Plant Physiology	6	6	36	2022	6.50	6.50	Q
		CC-12	Plant Metabolism	6	6	36	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	7	6	42	2022			
		DSE-2	Natural Resource Management	7	6	42	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	6	6	36	2023	7.50	7.50	Q
		CC-14	Plant Biotechnology	7	6	42	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	9	6	54	2023			
		DSE-4	Industrial and Environmental Microbiology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.72</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.92</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : BITAN PANDIT

Roll No. 200340900028

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	10	6	60	2020	10.00	8.73	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.70	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	10	2	20	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	9.00	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021				
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.33	9.08	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
MATHEMATICS	SEC-2	Graph Theory	7	2	14	2022				
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	10	6	60	2022	9.00	9.00	Q
		CC-12	Mechanics I	8	6	48	2022			
	MATHEMATICS	DSE-1	Point Set Topology	9	6	54	2022			
		DSE-2	Probability & Statistics	9	6	54	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	9	6	54	2023	8.75	8.75	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	10	6	60	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.22</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.03</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : **CHANCHAL KUMAR HAIT**Roll No. **200340900029**

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	8	6	48	2020	8.50	7.91	Q
		CC-2	Mechanics	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	9	6	54	2021	9.00	8.70	Q
		CC-4	Waves and Optics	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.00	8.77	Q
		CC-6	Thermal Physics	9	6	54	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	9.00	9.08	Q
		CC-9	Elements of Modern Physics	9	6	54	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022				
V	PHYSICS	CC-11	Quantum Mechanics and Applications	8	6	48	2022	7.50	7.50	Q
		CC-12	Solid State Physics	8	6	48	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	7	6	42	2022			
		DSE-2	Classical Dynamics	7	6	42	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	6	6	36	2023	5.75	5.75	Q
		CC-14	Statistical Mechanics	6	6	36	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	7	6	42	2023			
		DSE-4	Astronomy and Astrophysics	4	6	24	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.89</b>							<b>Letter Grade in CGPA : A</b>	<b>Result : Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.96</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : CHANDRIMA MODAK

Roll No. 200340900030

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.50	8.73	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	10	6	60	2021	9.67	9.46	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	10.00	9.69	Q
		CC-9	Multivariate Calculus	10	6	60	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	5	6	30	2022	5.50	5.50	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	6	6	36	2022			
		DSE-2	Probability & Statistics	5	6	30	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	6	6	36	2023	6.25	6.25	Q
		CC-14	Ring Theory and Linear Algebra II	4	6	24	2023			
	MATHEMATICS	DSE-3	Group Theory II	5	6	30	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.94</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.11</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : DEBJIT CHOWDHURY

Roll No. 200340900033

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	8	6	48	2020	8.00	7.64	Q
		CC-2	Environmental Biology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	9	6	54	2021	9.00	8.70	Q
		CC-4	Environmental Physics	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.00	9.23	Q
		CC-6	Environmental Resources	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	9	6	54	2022	9.33	9.23	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
ENVIRONMENTAL SCIENCE	SEC-2	Conservation & Ecotourism	9	2	18	2022				
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	9	6	54	2022	9.00	9.00	Q
		CC-12	Environmental Engineering & Statistics	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	9	6	54	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	8	6	48	2023	8.75	8.75	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	9	6	54	2023			
		DSE-4	Solid Waste Management	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.89</b>							Letter Grade in CGPA : <b>A+</b>		Result : <b>Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.79</b>										

Date of Publication of Result : 25.08.2023

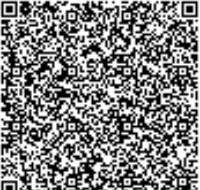
$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : DEBJIT ROY

Roll No. 200340900034

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	9	6	54	2020	9.00	8.45	Q
		CC-2	Mechanics	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	9	6	54	2021	9.00	8.70	Q
		CC-4	Waves and Optics	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.33	9.23	Q
		CC-6	Thermal Physics	10	6	60	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	9.33	9.54	Q
		CC-9	Elements of Modern Physics	10	6	60	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022				
V	PHYSICS	CC-11	Quantum Mechanics and Applications	8	6	48	2022	8.00	8.00	Q
		CC-12	Solid State Physics	9	6	54	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	8	6	48	2022			
		DSE-2	Classical Dynamics	7	6	42	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	8	6	48	2023	7.50	7.50	Q
		CC-14	Statistical Mechanics	8	6	48	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	9	6	54	2023			
		DSE-4	Astronomy and Astrophysics	5	6	30	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.56</b>							Letter Grade in CGPA : <b>A+</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.59</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : DEEP DUTTA

Roll No. 200340900035

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	8	6	48	2020	9.00	8.45	Q
		CC-2	Archegoniatae	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	9	6	54	2021	9.00	8.60	Q
		CC-4	Morphology and Anatomy of Angiosperms	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	7	6	42	2021	7.67	8.00	Q
		CC-6	Plant Systematics	8	6	48	2021			
		CC-7	Economic Botany	8	6	48	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
	BOTANY	SEC-1	Agricultural Botany	8	2	16	2021			
IV	BOTANY	CC-8	Palaeobotany & Palynology	7	6	42	2022	8.00	8.54	Q
		CC-9	Biomolecules and Cell Biology	8	6	48	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	BOTANY	SEC-2	Biofertilizers	9	2	18	2022			
V	BOTANY	CC-11	Plant Physiology	8	6	48	2022	6.75	6.75	Q
		CC-12	Plant Metabolism	5	6	30	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	7	6	42	2022			
		DSE-2	Natural Resource Management	7	6	42	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	7	6	42	2023	7.00	7.00	Q
		CC-14	Plant Biotechnology	7	6	42	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	7	6	42	2023			
		DSE-4	Industrial and Environmental Microbiology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.67</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.87</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : DEEP KUNDU

Roll No. 200340900036

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	7.64	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	6	6	36	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.70	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.00	8.85	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	8	6	48	2022	7.50	7.50	Q
		CC-12	Theory of Computation	7	6	42	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	7	6	42	2022			
		DSE-2	System Programming	8	6	48	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	9	6	54	2023	9.00	9.00	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	9	6	54	2023			
		DSE-4	Project Work / Dissertation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.72</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.52</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : GOURANGA BERA

Roll No. 200340900038

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	8	6	48	2020	8.50	8.18	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.90	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.46	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	7	6	42	2021			
IV	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021	8.67	8.54	Q
		CC-8	Riemann Integration and Series of Functions	9	6	54	2022			
		CC-9	Multivariate Calculus	8	6	48	2022			
	CC-10	Ring Theory and Linear Algebra I	9	6	54	2022				
V	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022	5.25	5.25	Q
		MATHEMATICS	SEC-2	Graph Theory	9	2	18			
	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022			
		CC-12	Mechanics I	5	6	30	2022			
VI	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022	5.75	5.75	Q
		DSE-2	Probability & Statistics	4	6	24	2022			
	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	4	6	24	2023			
		CC-14	Ring Theory and Linear Algebra II	5	6	30	2023			
VI	MATHEMATICS	DSE-3	Group Theory II	5	6	30	2023	5.75	5.75	Q
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.33</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.49</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

= (SGPA or CGPA × 10) - 5.0  
 \*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ISHIKA JASH

Roll No. 200340900040

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	10	6	60	2020	9.00	8.73	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	10	6	60	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	10	6	60	2021	9.50	9.30	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	10	6	60	2021	10.00	10.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	10	6	60	2021			
		CC-7	Fundamentals of Biochemistry	10	6	60	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	10	6	60	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	9.00	9.31	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	9	6	54	2022	9.25	9.25	Q
		CC-12	Genetics	9	6	54	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	10	6	60	2022			
		DSE-2	Parasitology	9	6	54	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	10	6	60	2023	9.25	9.25	Q
		CC-14	Evolutionary Biology	9	6	54	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	9	6	54	2023			
		DSE-4	Endocrinology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.33</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.32</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs <5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : JEET GHOSH

Roll No. 200340900043

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.91	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	8.77	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	8	6	48	2022	8.67	8.77	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
	CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022			
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	6.25	6.25	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	7	6	42	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	8	6	48	2023	7.50	7.50	Q
		CC-14	Physical Chemistry-IV	6	6	36	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.89</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.99</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : KEKA DEY

Roll No. 200340900044

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	8	6	48	2020	8.50	8.18	Q
		CC-2	Archegoniatae	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	9	6	54	2021	9.00	8.90	Q
		CC-4	Morphology and Anatomy of Angiosperms	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	8	6	48	2021	9.00	8.92	Q
		CC-6	Plant Systematics	9	6	54	2021			
		CC-7	Economic Botany	10	6	60	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
BOTANY	SEC-1	Agricultural Botany	8	2	16	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	9.67	9.54	Q
		CC-9	Biomolecules and Cell Biology	10	6	60	2022			
		CC-10	Molecular Biology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
BOTANY	SEC-2	Biofertilizers	10	2	20	2022				
V	BOTANY	CC-11	Plant Physiology	9	6	54	2022	8.75	8.75	Q
		CC-12	Plant Metabolism	9	6	54	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	8	6	48	2022			
		DSE-2	Natural Resource Management	9	6	54	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	8	6	48	2023	7.75	7.75	Q
		CC-14	Plant Biotechnology	7	6	42	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	8	6	48	2023			
		DSE-4	Industrial and Environmental Microbiology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.72</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.69</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : **KOUSHIK NANDI**Roll No. **200340900045**

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	8.09	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	8	6	48	2021	8.00	8.00	Q
		CC-4	Organic Chemistry-II	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	8.77	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
	CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022			
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	5.75	5.75	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	7	6	42	2023	7.75	7.75	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	9	6	54	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.78</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.92</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : **KOYEL DHARA**Roll No. **200340900047**

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	8	6	48	2020	9.00	8.64	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.70	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.77	Q
		CC-6	Group Theory I	9	6	54	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.00	8.85	Q
		CC-9	Multivariate Calculus	7	6	42	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	7	2	14	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	5.75	5.75	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022			
		DSE-2	Probability & Statistics	5	6	30	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023	7.25	7.25	Q
		CC-14	Ring Theory and Linear Algebra II	6	6	36	2023			
	MATHEMATICS	DSE-3	Group Theory II	7	6	42	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.89</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.99</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : KRISHNENDU MUKHERJEE

Roll No. 200340900048

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	10	6	60	2020	10.00	8.73	Q
		CC-2	Mechanics	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	10	6	60	2021	10.00	9.60	Q
		CC-4	Waves and Optics	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.33	9.31	Q
		CC-6	Thermal Physics	10	6	60	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	10	2	20	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	9.33	9.31	Q
		CC-9	Elements of Modern Physics	10	6	60	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022				
V	PHYSICS	CC-11	Quantum Mechanics and Applications	8	6	48	2022	8.00	8.00	Q
		CC-12	Solid State Physics	10	6	60	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	7	6	42	2022			
		DSE-2	Classical Dynamics	7	6	42	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	9	6	54	2023	8.25	8.25	Q
		CC-14	Statistical Mechanics	9	6	54	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	8	6	48	2023			
		DSE-4	Astronomy and Astrophysics	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.94</b>							Letter Grade in CGPA : <b>A+</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.86</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:	
	CGPA	Letter Grade
90% to 100%	10	9
70% and above but below 80%	8	7
50% and above but below 60%	6	5
35% and above but below 40%	4	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : LAXMI SOREN

Roll No. 200340900050

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.18	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.23	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	10	6	60	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	8.77	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	4	6	24	2022	5.00	5.00	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	6	6	36	2022			
		DSE-2	Analytical Methods in Chemistry	5	6	30	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	6	6	36	2023	6.25	6.25	Q
		CC-14	Physical Chemistry-IV	5	6	30	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	6	6	36	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.44</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.69</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MADHAB MANNA

Roll No. 200340900051

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	8.18	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.70	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.08	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.00	9.08	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	7	6	42	2022	7.00	7.00	Q
		CC-12	Theory of Computation	6	6	36	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	6	6	36	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	9	6	54	2023	9.00	9.00	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	9	6	54	2023			
		DSE-4	Project Work / Dissertation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.61</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.52</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MADHURIMA PAL

Roll No. 200340900052

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.18	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.70	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	10	6	60	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	8	6	48	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	7	6	42	2022	6.50	6.50	Q
		CC-12	Genetics	7	6	42	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	6	6	36	2022			
		DSE-2	Parasitology	6	6	36	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	6	6	36	2023	6.50	6.50	Q
		CC-14	Evolutionary Biology	6	6	36	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.78</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.96</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MEGHA SEN

Roll No. 200340900055

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	8	6	48	2020	8.50	8.18	Q
		CC-2	Environmental Biology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	9	6	54	2021	9.00	9.00	Q
		CC-4	Environmental Physics	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.67	9.46	Q
		CC-6	Environmental Resources	10	6	60	2021			
	CC-7	Green Chemistry & Environmental Applications	10	6	60	2021				
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
IV	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021	9.67	9.69	Q
		CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022			
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
V	ENVIRONMENTAL SCIENCE	CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022	9.50	9.50	Q
		ENVIRONMENTAL SCIENCE	SEC-2	Microbiological Techniques	9	2	18			
	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	10	6	60	2022			
		CC-12	Environmental Engineering & Statistics	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	9	6	54	2022	9.00	9.00	Q
		DSE-2	Environmental Health & Stress Physiology	10	6	60	2022			
	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	9	6	54	2023			
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.28</b>							Letter Grade in CGPA : <b>O</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.17</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MITU KOLEY

Roll No. 200340900056

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	9	6	54	2020	9.50	8.73	Q
		CC-2	Environmental Biology	10	6	60	2020			
	BOTANY	Biodiversity (Microbes, Algae, Fungi and Archegoniatae)	9	6	54	2020				
	ENVIRONMENTAL STUDIES	Fundamentals of Environmental Studies	6	4	24	2020				
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	10	6	60	2021	10.00	9.60	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021				
	Communicative English/MIL	Bengali	9	2	18	2021				
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.33	9.46	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	9	6	54	2021			
	ZOOLOGY	Physiology and Biochemistry	10	6	60	2021				
	ENVIRONMENTAL SCIENCE	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021				
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	9	6	54	2022	9.33	9.23	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	BOTANY	Plant Physiology and Metabolism	9	6	54	2022				
	ENVIRONMENTAL SCIENCE	Conservation & Ecotourism	9	2	18	2022				
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	8	6	48	2022	7.75	7.75	Q
		CC-12	Environmental Engineering & Statistics	6	6	36	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	8	6	48	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	7	6	42	2023	7.75	7.75	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	8	6	48	2023			
		DSE-4	Solid Waste Management	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.72</b>							<b>Letter Grade in CGPA : A+</b>	<b>Result : Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.75</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

Anindya Zohi Pal

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Grade Point Norms		Percentage Conversion Formula: = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	Grade	Grade	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MOUMITA PANDIT

Roll No. 200340900057

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.00	8.09	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.90	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	8.77	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	8	6	48	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	6	6	36	2022	5.25	5.25	Q
		CC-12	Genetics	5	6	30	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	5	6	30	2022			
		DSE-2	Parasitology	5	6	30	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	5	6	30	2023	5.00	5.00	Q
		CC-14	Evolutionary Biology	5	6	30	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	5	6	30	2023			
		DSE-4	Endocrinology	5	6	30	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.11</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.45</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MOUSAM CHATTERJEE

Roll No. 200340900058

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.50	8.45	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.70	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	10	6	60	2021	9.67	9.46	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.67	9.46	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	5.50	5.50	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022			
		DSE-2	Probability & Statistics	4	6	24	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023	7.00	7.00	Q
		CC-14	Ring Theory and Linear Algebra II	6	6	36	2023			
	MATHEMATICS	DSE-3	Group Theory II	6	6	36	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.06</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.11</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MRINAL KANTI DAS

Roll No. 200340900059

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	8	6	48	2020	8.50	8.36	Q
		CC-2	Mechanics	9	6	54	2020			
	COMPUTER SCIENCE	GE-1	Problem Solving using Computer	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	9	6	54	2021	9.00	9.10	Q
		CC-4	Waves and Optics	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	10	2	20	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Thermal Physics	9	6	54	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	9.33	9.54	Q
		CC-9	Elements of Modern Physics	10	6	60	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022			
V	PHYSICS	CC-11	Quantum Mechanics and Applications	7	6	42	2022	7.25	7.25	Q
		CC-12	Solid State Physics	10	6	60	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	7	6	42	2022			
		DSE-2	Classical Dynamics	5	6	30	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	7	6	42	2023	6.75	6.75	Q
		CC-14	Statistical Mechanics	7	6	42	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	7	6	42	2023			
		DSE-4	Astronomy and Astrophysics	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.11</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.34</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : MRINMOY SINGHA ROY

Roll No. 200340900060

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	10	6	60	2020	10.00	8.82	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.60	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.92	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	10.00	9.69	Q
		CC-9	Multivariate Calculus	10	6	60	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	8	6	48	2022	8.25	8.25	Q
		CC-12	Mechanics I	8	6	48	2022			
	MATHEMATICS	DSE-1	Point Set Topology	9	6	54	2022			
		DSE-2	Probability & Statistics	8	6	48	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	10	6	60	2023	9.50	9.50	Q
		CC-14	Ring Theory and Linear Algebra II	9	6	54	2023			
	MATHEMATICS	DSE-3	Group Theory II	9	6	54	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.33</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.13</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : NAMITA SAMANTA

Roll No. 200340900061

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	8	6	48	2020	7.50	7.36	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.70	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	8.85	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	8	6	48	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	7.75	7.75	Q
		CC-12	Genetics	7	6	42	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	8	6	48	2022			
		DSE-2	Parasitology	8	6	48	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	9	6	54	2023	7.25	7.25	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	6	6	36	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.11</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.13</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : NEHA KHATUN

Roll No. 200340900062

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	9	6	54	2020	9.50	8.64	Q
		CC-2	Environmental Biology	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	10	6	60	2021	10.00	9.40	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	10	2	20	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.33	9.46	Q
		CC-6	Environmental Resources	10	6	60	2021			
	CC-7	Green Chemistry & Environmental Applications	9	6	54	2021				
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	9	6	54	2022	9.33	9.23	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Microbiological Techniques	9	2	18	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	7	6	42	2022	6.75	6.75	Q
		CC-12	Environmental Engineering & Statistics	4	6	24	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	7	6	42	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	6	6	36	2023	7.00	7.00	Q
		CC-14	Wildlife Management & Conservation	8	6	48	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	7	6	42	2023			
		DSE-4	Solid Waste Management	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.33</b>							Letter Grade in CGPA : <b>A+</b>		Result : <b>Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.41</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : NILIMA BAG

Roll No. 200340900064

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	9.00	8.64	Q
		CC-2	Ecology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	9.00	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	9.00	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	7	6	42	2022	7.25	7.25	Q
		CC-12	Genetics	7	6	42	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	8	6	48	2022			
		DSE-2	Parasitology	7	6	42	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	8	6	48	2023	7.00	7.00	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.11</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.31</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : NISHA HAIT

Roll No. 200340900065

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	10	6	60	2020	10.00	9.00	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.60	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	10	6	60	2021	10.00	9.54	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	10	6	60	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
IV	MATHEMATICS	SEC-1	Logic and Sets	10	2	20	2021	10.00	9.77	Q
		CC-8	Riemann Integration and Series of Functions	10	6	60	2022			
		CC-9	Multivariate Calculus	10	6	60	2022			
	CC-10	Ring Theory and Linear Algebra I	10	6	60	2022				
V	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022	7.50	7.50	Q
		MATHEMATICS	SEC-2	Graph Theory	10	2	20			
	MATHEMATICS	CC-11	Partial Differential Equations and Applications	8	6	48	2022			
		CC-12	Mechanics I	7	6	42	2022			
VI	MATHEMATICS	DSE-1	Point Set Topology	9	6	54	2022	8.50	8.50	Q
		DSE-2	Probability & Statistics	6	6	36	2022			
	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023			
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
VI	MATHEMATICS	DSE-3	Group Theory II	10	6	60	2023	8.50	8.50	Q
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.11</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.99</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PALLABI DEY

Roll No. 200340900068

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	10	6	60	2020	9.50	8.73	Q
		CC-2	Environmental Biology	9	6	54	2020			
	BOTANY	Biodiversity (Microbes, Algae, Fungi and Archegoniatae)	9	6	54	2020				
	ENVIRONMENTAL STUDIES	Fundamentals of Environmental Studies	6	4	24	2020				
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	10	6	60	2021	10.00	9.70	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021				
	Communicative English/MIL	Communicative English	10	2	20	2021				
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	10	6	60	2021	9.33	9.31	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	8	6	48	2021			
	ZOOLOGY	Physiology and Biochemistry	9	6	54	2021				
	ENVIRONMENTAL SCIENCE	Remote Sensing & Geographical Information System (GIS)	10	2	20	2021				
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022	10.00	9.77	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	10	6	60	2022			
	BOTANY	Plant Physiology and Metabolism	9	6	54	2022				
	ENVIRONMENTAL SCIENCE	Conservation & Ecotourism	10	2	20	2022				
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	10	6	60	2022	9.50	9.50	Q
		CC-12	Environmental Engineering & Statistics	10	6	60	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	9	6	54	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	10	6	60	2023	9.25	9.25	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	9	6	54	2023			
		DSE-4	Solid Waste Management	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.56</b>							Letter Grade in CGPA : <b>O</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.38</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs <5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PIMPA ROY

Roll No. 200340900069

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	10	6	60	2020	9.50	8.73	Q
		CC-2	Mechanics	9	6	54	2020			
	COMPUTER SCIENCE	GE-1	Problem Solving using Computer	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	10	6	60	2021	10.00	9.60	Q
		CC-4	Waves and Optics	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.33	9.23	Q
		CC-6	Thermal Physics	10	6	60	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	10	6	60	2022	9.67	9.77	Q
		CC-9	Elements of Modern Physics	10	6	60	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022			
V	PHYSICS	CC-11	Quantum Mechanics and Applications	7	6	42	2022	7.75	7.75	Q
		CC-12	Solid State Physics	10	6	60	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	7	6	42	2022			
		DSE-2	Classical Dynamics	7	6	42	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	8	6	48	2023	7.00	7.00	Q
		CC-14	Statistical Mechanics	8	6	48	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	6	6	36	2023			
		DSE-4	Astronomy and Astrophysics	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.61</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.68</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : POULAMI BHATTACHARYYA

Roll No. 200340900070

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	10	6	60	2020	9.50	8.73	Q
		CC-2	Ecology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	10	6	60	2021	10.00	9.60	Q
		CC-4	Cell Biology	10	6	60	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	9.00	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	7	6	42	2022	6.75	6.75	Q
		CC-12	Genetics	6	6	36	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	7	6	42	2022			
		DSE-2	Parasitology	7	6	42	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	9	6	54	2023	7.50	7.50	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.28</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.41</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRADIP PANDIT

Roll No. 200340900071

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	9	6	54	2020	9.50	8.45	Q
		CC-2	Archegoniatae	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	10	6	60	2021	10.00	9.60	Q
		CC-4	Morphology and Anatomy of Angiosperms	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	9	6	54	2021	9.00	9.15	Q
		CC-6	Plant Systematics	10	6	60	2021			
		CC-7	Economic Botany	8	6	48	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
BOTANY	SEC-1	Agricultural Botany	8	2	16	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	9.00	9.00	Q
		CC-9	Biomolecules and Cell Biology	9	6	54	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
BOTANY	SEC-2	Biofertilizers	9	2	18	2022				
V	BOTANY	CC-11	Plant Physiology	8	6	48	2022	8.25	8.25	Q
		CC-12	Plant Metabolism	8	6	48	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	8	6	48	2022			
		DSE-2	Natural Resource Management	9	6	54	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	9	6	54	2023	9.00	9.00	Q
		CC-14	Plant Biotechnology	9	6	54	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	9	6	54	2023			
		DSE-4	Industrial and Environmental Microbiology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.00</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.90</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRARTHITA BHANDARY

Roll No. 200340900072

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	9	6	54	2020	9.50	8.73	Q
		CC-2	Archegoniatae	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	9	6	54	2021	9.50	9.30	Q
		CC-4	Morphology and Anatomy of Angiosperms	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	9	6	54	2021	9.00	9.08	Q
		CC-6	Plant Systematics	9	6	54	2021			
		CC-7	Economic Botany	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
BOTANY	SEC-1	Agricultural Botany	7	2	14	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	9.00	9.00	Q
		CC-9	Biomolecules and Cell Biology	9	6	54	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
BOTANY	SEC-2	Biofertilizers	9	2	18	2022				
V	BOTANY	CC-11	Plant Physiology	8	6	48	2022	8.50	8.50	Q
		CC-12	Plant Metabolism	8	6	48	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	9	6	54	2022			
		DSE-2	Natural Resource Management	9	6	54	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	9	6	54	2023	9.00	9.00	Q
		CC-14	Plant Biotechnology	10	6	60	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	8	6	48	2023			
		DSE-4	Industrial and Environmental Microbiology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.00</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.93</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRATIT MONDAL

Roll No. 200340900074

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	7	6	42	2020	7.00	7.09	Q
		CC-2	Mechanics	7	6	42	2020			
	COMPUTER SCIENCE	GE-1	Problem Solving using Computer	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	9	6	54	2021	9.00	9.00	Q
		CC-4	Waves and Optics	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.00	9.23	Q
		CC-6	Thermal Physics	10	6	60	2021			
		CC-7	Digital Systems and Applications	8	6	48	2021			
	MATHEMATICS	GE-3	Real Analysis	10	6	60	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	9.00	9.23	Q
		CC-9	Elements of Modern Physics	9	6	54	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	PHYSICS	SEC-2	Electrical Circuits and Network Skills	9	2	18	2022			
V	PHYSICS	CC-11	Quantum Mechanics and Applications	7	6	42	2022	7.25	7.25	Q
		CC-12	Solid State Physics	10	6	60	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	6	6	36	2022			
		DSE-2	Classical Dynamics	6	6	36	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	7	6	42	2023	7.00	7.00	Q
		CC-14	Statistical Mechanics	8	6	48	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	8	6	48	2023			
		DSE-4	Astronomy and Astrophysics	5	6	30	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.94</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.15</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRATYUSHA ADHYA

Roll No. 200340900075

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.18	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	8.77	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	6.00	6.00	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	7	6	42	2023	7.75	7.75	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.00</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.07</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRITAM MAJI

Roll No. 200340900076

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	9	6	54	2020	9.00	8.73	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	10	6	60	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.60	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	10	6	60	2021	9.67	9.54	Q
		CC-6	Inorganic Chemistry-II	10	6	60	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	10	2	20	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	10	6	60	2022	10.00	9.92	Q
		CC-9	Inorganic Chemistry-III	10	6	60	2022			
		CC-10	Organic Chemistry - IV	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	10	6	60	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	6.50	6.50	Q
		CC-12	Organic Chemistry-V	6	6	36	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	6	6	36	2022			
		DSE-2	Analytical Methods in Chemistry	8	6	48	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	7	6	42	2023	8.25	8.25	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	9	6	54	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.56</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.62</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRITAM ROY

Roll No. 200340900077

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	7.45	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	6	6	36	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.60	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.00	9.08	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	6	6	36	2022	7.00	7.00	Q
		CC-12	Theory of Computation	6	6	36	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	7	6	42	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	9	6	54	2023	8.75	8.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	8	6	48	2023			
		DSE-4	Project Work / Dissertation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.56</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.39</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRITAM SAMUI

Roll No. 200340900078

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.36	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	9.00	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.33	9.46	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	10	6	60	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	10	6	60	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	10.00	9.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	8.00	8.00	Q
		CC-12	Genetics	8	6	48	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	9	6	54	2022			
		DSE-2	Parasitology	7	6	42	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	8	6	48	2023	7.25	7.25	Q
		CC-14	Evolutionary Biology	6	6	36	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.56</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.66</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRIYA SANTRA

Roll No. 200340900079

Honours: ECONOMICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ECONOMICS	CC-1	Introductory Microeconomics	6	6	36	2020	7.00	7.82	Q
		CC-2	Statistics-I	8	6	48	2020			
	MATHEMATICS	GE-1	Differential Calculus	10	6	60	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ECONOMICS	CC-3	Introductory Macroeconomics	8	6	48	2021	8.00	8.10	Q
		CC-4	Mathematical Economics-I	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ECONOMICS	CC-5	Intermediate Microeconomics	8	6	48	2021	8.67	8.85	Q
		CC-6	Intermediate Macroeconomics	9	6	54	2021			
		CC-7	Mathematical Economics -II	9	6	54	2021			
	COMPUTER SCIENCE	GE-3	Operating Systems	9	6	54	2021			
	ECONOMICS	SEC-1	Managerial Economics	10	2	20	2021			
IV	ECONOMICS	CC-8	Selected Features of Indian Economy	8	6	48	2022	8.00	8.54	Q
		CC-9	Statistics-II	8	6	48	2022			
		CC-10	Development Economics	8	6	48	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
	ECONOMICS	SEC-2	Basic Computer Applications	9	2	18	2022			
V	ECONOMICS	CC-11	International Economics	6	6	36	2022	7.25	7.25	Q
		CC-12	Money and Banking	7	6	42	2022			
	ECONOMICS	DSE-1	Rural Development	8	6	48	2022			
		DSE-2	Public Economics	8	6	48	2022			
VI	ECONOMICS	CC-13	Basic Econometrics	6	6	36	2023	7.25	7.25	Q
		CC-14	Field Survey & Project Report	8	6	48	2023			
	ECONOMICS	DSE-3	Political Economy	8	6	48	2023			
		DSE-4	Entrepreneurship Development	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.67</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.99</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				Percentage Conversion Formula: = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : PRIYANKA SAMANTA

Roll No. 20034090080

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	7	6	42	2020	8.00	7.91	Q
		CC-2	Archegoniatae	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	8	6	48	2021	8.00	8.30	Q
		CC-4	Morphology and Anatomy of Angiosperms	8	6	48	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	7	6	42	2021	7.33	7.54	Q
		CC-6	Plant Systematics	8	6	48	2021			
		CC-7	Economic Botany	7	6	42	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
BOTANY	SEC-1	Agricultural Botany	5	2	10	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	7	6	42	2022	7.00	7.54	Q
		CC-9	Biomolecules and Cell Biology	7	6	42	2022			
		CC-10	Molecular Biology	7	6	42	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
BOTANY	SEC-2	Biofertilizers	8	2	16	2022				
V	BOTANY	CC-11	Plant Physiology	6	6	36	2022	5.00	5.00	Q
		CC-12	Plant Metabolism	4	6	24	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	5	6	30	2022			
		DSE-2	Natural Resource Management	5	6	30	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	5	6	30	2023	5.00	5.00	Q
		CC-14	Plant Biotechnology	5	6	30	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	4	6	24	2023			
		DSE-4	Industrial and Environmental Microbiology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>6.39</b>							<b>Letter Grade in CGPA : B+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>6.85</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RACHAYITA ROY

Roll No. 200340900081

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.18	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	9.00	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	9.67	9.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	5	6	30	2022	5.75	5.75	Q
		CC-12	Genetics	6	6	36	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	7	6	42	2022			
		DSE-2	Parasitology	5	6	30	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	7	6	42	2023	6.50	6.50	Q
		CC-14	Evolutionary Biology	5	6	30	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.78</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.06</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RAJKUMAR GAYEN

Roll No. 200340900084

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.91	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.60	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.08	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	10	2	20	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	8	6	48	2022	8.00	8.00	Q
		CC-12	Organic Chemistry-V	7	6	42	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	8	6	48	2022			
		DSE-2	Analytical Methods in Chemistry	9	6	54	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	9	6	54	2023	8.75	8.75	Q
		CC-14	Physical Chemistry-IV	8	6	48	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	9	6	54	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.61</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.58</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RIJU PAL

Roll No. 20034090085

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	8.45	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.70	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	9.33	9.31	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	7	6	42	2022	7.25	7.25	Q
		CC-12	Theory of Computation	6	6	36	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	7	6	42	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	9	6	54	2023	8.50	8.50	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	7	6	42	2023			
		DSE-4	Project Work / Dissertation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.61</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.61</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RIMA MAHINDAR

Roll No. 20034090087

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	9	6	54	2020	9.50	8.45	Q
		CC-2	Archegoniatae	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	9	6	54	2021	9.50	9.00	Q
		CC-4	Morphology and Anatomy of Angiosperms	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	9	6	54	2021	9.00	9.08	Q
		CC-6	Plant Systematics	9	6	54	2021			
		CC-7	Economic Botany	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	BOTANY	SEC-1	Agricultural Botany	7	2	14	2021			
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	9.00	9.31	Q
		CC-9	Biomolecules and Cell Biology	9	6	54	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	BOTANY	SEC-2	Biofertilizers	10	2	20	2022			
V	BOTANY	CC-11	Plant Physiology	9	6	54	2022	8.25	8.25	Q
		CC-12	Plant Metabolism	8	6	48	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	8	6	48	2022			
		DSE-2	Natural Resource Management	8	6	48	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	9	6	54	2023	8.25	8.25	Q
		CC-14	Plant Biotechnology	7	6	42	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	7	6	42	2023			
		DSE-4	Industrial and Environmental Microbiology	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.78</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.73</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:																	
	<table border="1"> <tr> <td>90% to 100%</td> <td>10</td> <td>80% and above but below 90%</td> <td>9</td> </tr> <tr> <td>70% and above but below 80%</td> <td>8</td> <td>60% and above but below 70%</td> <td>7</td> </tr> <tr> <td>50% and above but below 60%</td> <td>6</td> <td>40% and above but below 50%</td> <td>5</td> </tr> <tr> <td>35% and above but below 40%</td> <td>4</td> <td>Below 35%</td> <td>Not Awarded (NA)</td> </tr> </table>	90% to 100%	10	80% and above but below 90%	9	70% and above but below 80%	8	60% and above but below 70%	7	50% and above but below 60%	6	40% and above but below 50%	5	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	$= (SGPA \text{ or } CGPA \times 10) - 5.0$ <p>*Letter Grade in CGPA is awarded on the basis of CCs and DSEs</p>
90% to 100%	10	80% and above but below 90%	9															
70% and above but below 80%	8	60% and above but below 70%	7															
50% and above but below 60%	6	40% and above but below 50%	5															
35% and above but below 40%	4	Below 35%	Not Awarded (NA)															







**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RIMANA YASMIN

Roll No. 200340900088

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	8	6	48	2020	8.50	8.18	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.70	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.33	9.23	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.33	9.23	Q
		CC-9	Multivariate Calculus	8	6	48	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	6	6	36	2022	5.25	5.25	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022			
		DSE-2	Probability & Statistics	4	6	24	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	6	6	36	2023	6.50	6.50	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	4	6	24	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.67</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.86</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:	
		= (SGPA or CGPA × 10) - 5.0
	*Letter Grade in CGPA is awarded on the basis of CCs and DSEs	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RITAM KHA

Roll No. 20034090089

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	8	6	48	2020	8.00	7.64	Q
		CC-2	Computer System Architecture	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.60	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	8	6	48	2021	9.00	9.08	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.00	8.85	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	7	6	42	2022	7.00	7.00	Q
		CC-12	Theory of Computation	6	6	36	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	8	6	48	2022			
		DSE-2	System Programming	7	6	42	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	9	6	54	2023	8.75	8.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	7	6	42	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.39</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.34</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : ROHIT MANNA

Roll No. 20034090090

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	8	6	48	2020	9.00	8.64	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.69	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.33	9.31	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	10	2	20	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	9	6	54	2022	6.25	6.25	Q
		CC-12	Mechanics I	6	6	36	2022			
	MATHEMATICS	DSE-1	Point Set Topology	6	6	36	2022			
		DSE-2	Probability & Statistics	4	6	24	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023	8.50	8.50	Q
		CC-14	Ring Theory and Linear Algebra II	8	6	48	2023			
	MATHEMATICS	DSE-3	Group Theory II	9	6	54	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.33</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.39</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
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SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RUDRAPRASAD GAYEN

Roll No. 20034090091

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	9	6	54	2020	9.00	8.18	Q
		CC-2	Mechanics	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	9	6	54	2021	9.50	9.00	Q
		CC-4	Waves and Optics	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.33	9.23	Q
		CC-6	Thermal Physics	10	6	60	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	9	2	18	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	9.33	9.31	Q
		CC-9	Elements of Modern Physics	10	6	60	2022			
		CC-10	Analog Systems & Applications	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022				
V	PHYSICS	CC-11	Quantum Mechanics and Applications	6	6	36	2022	6.50	6.50	Q
		CC-12	Solid State Physics	9	6	54	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	6	6	36	2022			
		DSE-2	Classical Dynamics	5	6	30	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	7	6	42	2023	6.25	6.25	Q
		CC-14	Statistical Mechanics	7	6	42	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	6	6	36	2023			
		DSE-4	Astronomy and Astrophysics	5	6	30	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.00</b>							Letter Grade in CGPA : <b>A+</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.08</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RUMANA PARVIN

Roll No. 20034090092

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	10	6	60	2020	10.00	8.82	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.60	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	10	6	60	2021	10.00	9.54	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	10	6	60	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
IV	MATHEMATICS	SEC-1	Logic and Sets	10	2	20	2021	9.67	9.31	Q
		CC-8	Riemann Integration and Series of Functions	9	6	54	2022			
		CC-9	Multivariate Calculus	10	6	60	2022			
	CC-10	Ring Theory and Linear Algebra I	10	6	60	2022				
V	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022	6.75	6.75	Q
		MATHEMATICS	SEC-2	Graph Theory	10	2	20			
	MATHEMATICS	CC-11	Partial Differential Equations and Applications	9	6	54	2022			
		CC-12	Mechanics I	7	6	42	2022			
VI	MATHEMATICS	DSE-1	Point Set Topology	7	6	42	2022	7.50	7.50	Q
		DSE-2	Probability & Statistics	4	6	24	2022			
	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023			
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.67</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.58</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : RUNA MONDAL

Roll No. 20034090093

Honours: GEOGRAPHY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	GEOGRAPHY	CC-1	Geotectonics and Geomorphology	8	6	48	2020	8.00	8.09	Q
		CC-2	Cartographic Techniques and Geological map study	8	6	48	2020			
	ZOOLOGY	GE-1	Animal Diversity	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	GEOGRAPHY	CC-3	Human Geography	9	6	54	2021	9.00	9.00	Q
		CC-4	Cartograms, Survey and Thematic Mapping	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	GEOGRAPHY	CC-5	Climatology	9	6	54	2021	8.67	9.00	Q
		CC-6	Statistical Methods in Geography	9	6	54	2021			
		CC-7	Geography of India	8	6	48	2021			
	ENVIRONMENTAL SCIENCE	GE-3	Environmental Pollution	10	6	60	2021			
IV	GEOGRAPHY	SEC-1	Computer Basics and Computer Applications	9	2	18	2021	9.33	9.23	Q
		CC-8	Regional Planning and Development	9	6	54	2022			
		CC-9	Economic Geography	10	6	60	2022			
	ENVIRONMENTAL SCIENCE	GE-4	Green Technology	9	6	54	2022			
	GEOGRAPHY	SEC-2	Field Work	9	2	18	2022			
V	GEOGRAPHY	CC-11	Research Methodology and Field Work	7	6	42	2022	6.75	6.75	Q
		CC-12	Remote Sensing and GIS	7	6	42	2022			
	GEOGRAPHY	DSE-1	Cultural and Settlement Geography	7	6	42	2022			
		DSE-2	Population Geography	6	6	36	2022			
VI	GEOGRAPHY	CC-13	Evolution of Geographical Thought	8	6	48	2023	8.25	8.25	Q
		CC-14	Disaster Management	9	6	54	2023			
	GEOGRAPHY	DSE-3	Resource Geography	8	6	48	2023			
		DSE-4	Soil and Bio Geography	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.22</b>							Letter Grade in CGPA : <b>A+</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.39</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course	9 and above	O (Outstanding)	5 to below 6	B (Average)	Q – Qualified
GE – Generic Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	7 to below 8	A (Very Good)	Below 4	F (Fail)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAGNIKA BHATTACHARYYA

Roll No. 200340900095

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	9.00	8.27	Q
		CC-2	Ecology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.90	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	10	6	60	2021	10.00	9.77	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	10	6	60	2021			
		CC-7	Fundamentals of Biochemistry	10	6	60	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	10.00	9.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	8.75	8.75	Q
		CC-12	Genetics	9	6	54	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	10	6	60	2022			
		DSE-2	Parasitology	8	6	48	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	9	6	54	2023	8.50	8.50	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	9	6	54	2023			
		DSE-4	Endocrinology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.17</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.03</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAHADAT MALLICK

Roll No. 200340900096

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.50	8.45	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.70	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.69	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	9	6	54	2022	9.00	8.85	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	7	2	14	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	9	6	54	2022	7.25	7.25	Q
		CC-12	Mechanics I	8	6	48	2022			
	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022			
		DSE-2	Probability & Statistics	7	6	42	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023	8.00	8.00	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	7	6	42	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.44</b>							<b>Letter Grade in CGPA : A+</b>	<b>Result : Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.32</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:	
	Grade Point	Percentage
90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%
50% and above but below 60%	6	40% and above but below 50%
35% and above but below 40%	4	Below 35%
		Not Awarded (NA)

Percentage Conversion Formula:  
= (SGPA or CGPA × 10) - 5.0  
\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAHELI MONDAL

Roll No. 200340900097

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.00	8.45	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	8.90	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.92	Q
		CC-6	Group Theory I	9	6	54	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	9	6	54	2022	9.33	9.23	Q
		CC-9	Multivariate Calculus	9	6	54	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	9	2	18	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	9	6	54	2022	8.00	8.00	Q
		CC-12	Mechanics I	8	6	48	2022			
	MATHEMATICS	DSE-1	Point Set Topology	7	6	42	2022			
		DSE-2	Probability & Statistics	8	6	48	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023	7.75	7.75	Q
		CC-14	Ring Theory and Linear Algebra II	6	6	36	2023			
	MATHEMATICS	DSE-3	Group Theory II	8	6	48	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.56</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.55</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

= (SGPA or CGPA × 10) - 5.0  
 \*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAHIN MONDAL

Roll No. 200340900098

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	7	6	42	2020	8.00	7.91	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	8	6	48	2021	8.00	8.10	Q
		CC-4	Differential Equations and Vector Calculus	8	6	48	2021			
	PHYSICS	GE-2	Electricity and Magnetism	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.69	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
IV	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021	9.33	9.00	Q
		CC-8	Riemann Integration and Series of Functions	10	6	60	2022			
		CC-9	Multivariate Calculus	9	6	54	2022			
	CC-10	Ring Theory and Linear Algebra I	9	6	54	2022				
V	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022	6.25	6.25	Q
		MATHEMATICS	SEC-2	Graph Theory	9	2	18			
	MATHEMATICS	CC-11	Partial Differential Equations and Applications	8	6	48	2022			
		CC-12	Mechanics I	7	6	42	2022			
VI	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022	6.25	6.25	Q
		DSE-2	Probability & Statistics	5	6	30	2022			
	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	5	6	30	2023			
		CC-14	Ring Theory and Linear Algebra II	5	6	30	2023			
VI	MATHEMATICS	DSE-3	Group Theory II	6	6	36	2023	6.25	6.25	Q
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.61</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.72</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:	
		= (SGPA or CGPA × 10) - 5.0
	*Letter Grade in CGPA is awarded on the basis of CCs and DSEs	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAIKAT RAHA

Roll No. 200340900099

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	9	6	54	2020	9.00	8.36	Q
		CC-2	Environmental Biology	9	6	54	2020			
	BOTANY	Biodiversity (Microbes, Algae, Fungi and Archegoniatae)	8	6	48	2020				
	ENVIRONMENTAL STUDIES	Fundamentals of Environmental Studies	7	4	28	2020				
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	9	6	54	2021	9.00	9.00	Q
		CC-4	Environmental Physics	9	6	54	2021			
	ZOOLOGY	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021				
	Communicative English/MIL	Communicative English	9	2	18	2021				
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.33	9.46	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	9	6	54	2021			
	ZOOLOGY	Physiology and Biochemistry	10	6	60	2021				
	ENVIRONMENTAL SCIENCE	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021				
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022	9.67	9.23	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	BOTANY	Plant Physiology and Metabolism	8	6	48	2022				
	ENVIRONMENTAL SCIENCE	Conservation & Ecotourism	9	2	18	2022				
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	9	6	54	2022	8.25	8.25	Q
		CC-12	Environmental Engineering & Statistics	8	6	48	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	8	6	48	2022			
		DSE-2	Environmental Health & Stress Physiology	8	6	48	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	9	6	54	2023	8.50	8.50	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	8	6	48	2023			
		DSE-4	Solid Waste Management	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.89</b>							Letter Grade in CGPA : A+	Result : Q		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.82</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAMAPTI CHATTERJEE

Roll No. 200340900100

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.36	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.90	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	10.00	10.00	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	8.00	8.00	Q
		CC-12	Genetics	8	6	48	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	8	6	48	2022			
		DSE-2	Parasitology	8	6	48	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	9	6	54	2023	8.00	8.00	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	8	6	48	2023			
		DSE-4	Endocrinology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.67</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.75</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAMRAT RANA

Roll No. 200340900103

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	8	6	48	2020	7.50	7.09	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	7	6	42	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	8	6	48	2021	8.00	7.70	Q
		CC-4	Cell Biology	8	6	48	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	7	6	42	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	8	6	48	2021	8.33	8.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	8	6	48	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	CHEMISTRY	GE-3	Chemical Energetic, Equilibria, Organic Chemistry	7	6	42	2021			
	ZOOLOGY	SEC-1	Sericulture	8	2	16	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	8	6	48	2022	7.67	7.46	Q
		CC-9	Animal Physiology: Life Sustaining Systems	8	6	48	2022			
		CC-10	Immunology	7	6	42	2022			
	BOTANY	GE-4	Plant Physiology and Metabolism	6	6	36	2022			
ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022				
V	ZOOLOGY	CC-11	Molecular Biology	6	6	36	2022	6.00	6.00	Q
		CC-12	Genetics	6	6	36	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	7	6	42	2022			
		DSE-2	Parasitology	5	6	30	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	7	6	42	2023	6.50	6.50	Q
		CC-14	Evolutionary Biology	5	6	30	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.17</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.13</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course	9 and above	O (Outstanding)	5 to below 6	B (Average)	Q – Qualified
GE – Generic Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	7 to below 8	A (Very Good)	Below 4	F (Fail)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	CGPA	Letter Grade	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SANCHARI KUNDU

Roll No. 200340900105

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	8	6	48	2020	9.00	8.64	Q
		CC-2	Environmental Biology	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	9	6	54	2021	9.50	9.30	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	10	6	60	2021	9.67	9.77	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	10	2	20	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022	9.67	9.77	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Microbiological Techniques	10	2	20	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	10	6	60	2022	9.50	9.50	Q
		CC-12	Environmental Engineering & Statistics	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	9	6	54	2022			
		DSE-2	Environmental Health & Stress Physiology	10	6	60	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	10	6	60	2023	9.25	9.25	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	9	6	54	2023			
		DSE-4	Solid Waste Management	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.44</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.39</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SANDIP MODAK

Roll No. 200340900106

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	8	6	48	2020	8.50	7.73	Q
		CC-2	Environmental Biology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	10	6	60	2021	9.50	9.00	Q
		CC-4	Environmental Physics	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.00	9.23	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	8	6	48	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	9	6	54	2022	9.33	9.23	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Conservation & Ecotourism	9	2	18	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	9	6	54	2022	7.75	7.75	Q
		CC-12	Environmental Engineering & Statistics	6	6	36	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	8	6	48	2022			
		DSE-2	Environmental Health & Stress Physiology	8	6	48	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	7	6	42	2023	7.75	7.75	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	7	6	42	2023			
		DSE-4	Solid Waste Management	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.50</b>							Letter Grade in CGPA : <b>A+</b>		Result : <b>Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.46</b>										

Date of Publication of Result : 25.08.2023

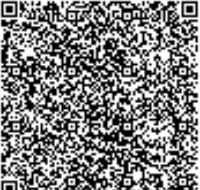
$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5.0 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SARABI KUNDU

Roll No. 200340900107

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.73	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.08	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	10	2	20	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	10	6	60	2022	10.00	9.69	Q
		CC-9	Inorganic Chemistry-III	10	6	60	2022			
		CC-10	Organic Chemistry - IV	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	7	6	42	2022	7.25	7.25	Q
		CC-12	Organic Chemistry-V	7	6	42	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	8	6	48	2022			
		DSE-2	Analytical Methods in Chemistry	7	6	42	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	8	6	48	2023	8.75	8.75	Q
		CC-14	Physical Chemistry-IV	8	6	48	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	10	6	60	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.61</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.56</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)







**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SARAL ROY

Roll No. 200340900108

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	9.00	8.00	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.60	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.33	9.08	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	9	6	54	2022	8.75	8.75	Q
		CC-12	Theory of Computation	8	6	48	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	9	6	54	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.22</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.94</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SARANDIP MALLICK

Roll No. 200340900109

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	8	6	48	2020	7.50	7.55	Q
		CC-2	Computer System Architecture	7	6	42	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	8	6	48	2021	8.00	8.00	Q
		CC-4	Discrete Structure	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	8	6	48	2021	8.00	8.31	Q
		CC-6	Operating Systems	8	6	48	2021			
		CC-7	Computer Networks	8	6	48	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	9	2	18	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	9.33	9.08	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	8	6	48	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	7	6	42	2022	5.75	5.75	Q
		CC-12	Theory of Computation	4	6	24	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	5	6	30	2022			
		DSE-2	System Programming	7	6	42	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	8	6	48	2023	8.50	8.50	Q
		CC-14	Computer Graphics	8	6	48	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	9	6	54	2023			
		DSE-4	Project Work / Dissertation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.78</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.89</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAYAN BANERJEE

Roll No. 200340900110

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	9.00	8.45	Q
		CC-2	Ecology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	10	6	60	2021	10.00	9.60	Q
		CC-4	Cell Biology	10	6	60	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	10	6	60	2021	9.33	9.31	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	10.00	9.54	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	7.75	7.75	Q
		CC-12	Genetics	7	6	42	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	9	6	54	2022			
		DSE-2	Parasitology	7	6	42	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	8	6	48	2023	7.50	7.50	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	8	6	48	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.72</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.69</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAYAN RANA

Roll No. 200340900112

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.00	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.60	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	8.08	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	5	6	30	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
	CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022			
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	5.00	5.00	Q
		CC-12	Organic Chemistry-V	4	6	24	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	5	6	30	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	7	6	42	2023	7.25	7.25	Q
		CC-14	Physical Chemistry-IV	5	6	30	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.67</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.65</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAYANI SANTRA

Roll No. 200340900113

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	7.64	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	7	6	42	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.70	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	5	6	30	2022	4.25	4.25	Q
		CC-12	Genetics	4	6	24	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	4	6	24	2022			
		DSE-2	Parasitology	4	6	24	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	6	6	36	2023	5.00	5.00	Q
		CC-14	Evolutionary Biology	4	6	24	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	6	6	36	2023			
		DSE-4	Endocrinology	4	6	24	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>6.94</b>							<b>Letter Grade in CGPA : B+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.24</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SAYAN CHAKRABORTY

Roll No. 200340900114

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	6	6	36	2020	5.50	6.00	Q
		CC-2	Algebra	5	6	30	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	7	6	42	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	8	6	48	2021	8.00	8.10	Q
		CC-4	Differential Equations and Vector Calculus	8	6	48	2021			
	PHYSICS	GE-2	Electricity and Magnetism	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	8.46	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	7	6	42	2021			
IV	MATHEMATICS	SEC-1	Logic and Sets	8	2	16	2021	9.00	9.31	Q
		CC-8	Riemann Integration and Series of Functions	9	6	54	2022			
		CC-9	Multivariate Calculus	9	6	54	2022			
	CC-10	Ring Theory and Linear Algebra I	9	6	54	2022				
V	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022	5.75	5.75	Q
		MATHEMATICS	SEC-2	Graph Theory	10	2	20			
	MATHEMATICS	CC-11	Partial Differential Equations and Applications	9	6	54	2022			
		CC-12	Mechanics I	5	6	30	2022			
VI	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022	7.75	7.75	Q
		DSE-2	Probability & Statistics	4	6	24	2022			
	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023			
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
MATHEMATICS	DSE-3	Group Theory II	7	6	42	2023	7.75	7.75	Q	
	DSE-4	Project Work	9	6	54	2023				
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.50</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.61</b>										


Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SHAHIN AKTAR

Roll No. 200340900115

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	9	6	54	2020	9.50	8.73	Q
		CC-2	Environmental Biology	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	10	6	60	2021	10.00	9.30	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	10	6	60	2021	10.00	9.69	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	10	6	60	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022	9.67	9.54	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Microbiological Techniques	10	2	20	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	9	6	54	2022	9.25	9.25	Q
		CC-12	Environmental Engineering & Statistics	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	9	6	54	2022			
		DSE-2	Environmental Health & Stress Physiology	10	6	60	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	9	6	54	2023	9.00	9.00	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	9	6	54	2023			
		DSE-4	Solid Waste Management	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.50</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.27</b>										

Date of Publication of Result : 25.08.2023

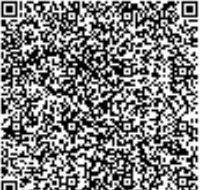
$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

Anindya Zohi Pal

Controller of Examinations

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SHILPA NAYEK

Roll No. 200340900116

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	10	6	60	2020	9.50	8.73	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	10	6	60	2021	9.50	9.00	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	9.77	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	9	6	54	2022	8.25	8.25	Q
		CC-12	Theory of Computation	8	6	48	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	7	6	42	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.33</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.15</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	Grade Point	Percentage	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SHOVAN HAZRA

Roll No. 200340900117

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	10	6	60	2020	9.50	8.73	Q
		CC-2	Algebra	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.60	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	9.00	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	10.00	9.77	Q
		CC-9	Multivariate Calculus	10	6	60	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	10	2	20	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	6.50	6.50	Q
		CC-12	Mechanics I	5	6	30	2022			
	MATHEMATICS	DSE-1	Point Set Topology	8	6	48	2022			
		DSE-2	Probability & Statistics	6	6	36	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023	8.00	8.00	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	7	6	42	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.56</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.59</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SHREYA MISRA

Roll No. 200340900120

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	8	6	48	2020	7.50	7.64	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.60	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	8	6	48	2021	8.33	8.54	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	8	6	48	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	5	6	30	2022	5.50	5.50	Q
		CC-12	Genetics	6	6	36	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	6	6	36	2022			
		DSE-2	Parasitology	5	6	30	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	6	6	36	2023	5.75	5.75	Q
		CC-14	Evolutionary Biology	6	6	36	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	5	6	30	2023			
		DSE-4	Endocrinology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.17</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.46</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SHUBHAJIT DEY

Roll No. 200340900121

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.36	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	5.75	5.75	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	8	6	48	2023	8.75	8.75	Q
		CC-14	Physical Chemistry-IV	8	6	48	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	10	6	60	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.17</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.27</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SK MD RIYAJUL ALI

Roll No. 200340900122

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	8.50	7.36	Q
		CC-2	Computer System Architecture	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	6	6	36	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.50	8.90	Q
		CC-4	Discrete Structure	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	8	2	16	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	10.00	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	10	6	60	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	7	6	42	2022	7.75	7.75	Q
		CC-12	Theory of Computation	6	6	36	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	9	6	54	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	8	6	48	2023	9.00	9.00	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	9	6	54	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.94</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.76</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SK OSMAN GONI

Roll No. 200340900123

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.45	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	10	6	60	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	8	6	48	2021	8.67	8.77	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021			
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
	CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022			
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	5.50	5.50	Q
		CC-12	Organic Chemistry-V	4	6	24	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	7	6	42	2023	7.75	7.75	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	8	6	48	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.83</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.03</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SK SAHIL

Roll No. 200340900124

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	10	6	60	2020	9.50	8.45	Q
		CC-2	Ecology	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.50	9.30	Q
		CC-4	Cell Biology	10	6	60	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.33	9.31	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	10	6	60	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	9.00	9.00	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	7	6	42	2022	7.00	7.00	Q
		CC-12	Genetics	8	6	48	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	7	6	42	2022			
		DSE-2	Parasitology	6	6	36	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	7	6	42	2023	6.75	6.75	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	6	6	36	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.22</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.30</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SNEHA MALLICK

Roll No. 200340900125

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	8	6	48	2020	9.00	8.36	Q
		CC-2	Environmental Biology	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	9	6	54	2021	9.50	9.20	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.33	9.46	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	10	6	60	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	9	6	54	2022	9.33	9.23	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Microbiological Techniques	9	2	18	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	9	6	54	2022	8.25	8.25	Q
		CC-12	Environmental Engineering & Statistics	7	6	42	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	8	6	48	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	7	6	42	2023	8.00	8.00	Q
		CC-14	Wildlife Management & Conservation	8	6	48	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	9	6	54	2023			
		DSE-4	Solid Waste Management	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.78</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.76</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zyoti Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SNEHA TAPASWI

Roll No. 200340900126

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	9	6	54	2020	9.50	8.91	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.33	9.23	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	9	6	54	2022	9.67	9.38	Q
		CC-9	Multivariate Calculus	10	6	60	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	8	2	16	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	6.00	6.00	Q
		CC-12	Mechanics I	7	6	42	2022			
	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022			
		DSE-2	Probability & Statistics	5	6	30	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	8	6	48	2023	8.00	8.00	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	8	6	48	2023			
		DSE-4	Project Work	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.33</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.42</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SNIGDHA HATI

Roll No. 200340900127

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.18	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.90	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	9.67	9.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	10	6	60	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	8	6	48	2022	7.75	7.75	Q
		CC-12	Genetics	7	6	42	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	9	6	54	2022			
		DSE-2	Parasitology	7	6	42	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	8	6	48	2023	7.75	7.75	Q
		CC-14	Evolutionary Biology	7	6	42	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	8	6	48	2023			
		DSE-4	Endocrinology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.50</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.59</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs. <5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOHAM KUNDU

Roll No. 200340900128

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.91	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	6.00	6.00	Q
		CC-12	Organic Chemistry-V	5	6	30	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	6	6	36	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	6	6	36	2023	8.00	8.00	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	10	6	60	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.00</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.11</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SONALI CHOWDHURY

Roll No. 200340900129

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	10	6	60	2020	10.00	9.00	Q
		CC-2	Archegoniatae	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	9	6	54	2021	9.50	9.00	Q
		CC-4	Morphology and Anatomy of Angiosperms	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	9	6	54	2021	9.00	8.92	Q
		CC-6	Plant Systematics	9	6	54	2021			
		CC-7	Economic Botany	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
BOTANY	SEC-1	Agricultural Botany	8	2	16	2021				
IV	BOTANY	CC-8	Palaeobotany & Palynology	9	6	54	2022	9.00	9.00	Q
		CC-9	Biomolecules and Cell Biology	9	6	54	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
BOTANY	SEC-2	Biofertilizers	9	2	18	2022				
V	BOTANY	CC-11	Plant Physiology	8	6	48	2022	7.75	7.75	Q
		CC-12	Plant Metabolism	7	6	42	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	8	6	48	2022			
		DSE-2	Natural Resource Management	8	6	48	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	8	6	48	2023	8.75	8.75	Q
		CC-14	Plant Biotechnology	9	6	54	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	9	6	54	2023			
		DSE-4	Industrial and Environmental Microbiology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.83</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.73</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUMI NANDI

Roll No. 200340900131

Honours: GEOGRAPHY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	GEOGRAPHY	CC-1	Geotectonics and Geomorphology	8	6	48	2020	8.00	7.91	Q
		CC-2	Cartographic Techniques and Geological map study	8	6	48	2020			
	ZOOLOGY	GE-1	Animal Diversity	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	GEOGRAPHY	CC-3	Human Geography	9	6	54	2021	9.00	8.90	Q
		CC-4	Cartograms, Survey and Thematic Mapping	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	GEOGRAPHY	CC-5	Climatology	9	6	54	2021	8.67	8.69	Q
		CC-6	Statistical Methods in Geography	9	6	54	2021			
		CC-7	Geography of India	8	6	48	2021			
	ENVIRONMENTAL SCIENCE	GE-3	Environmental Pollution	9	6	54	2021			
IV	GEOGRAPHY	SEC-1	Computer Basics and Computer Applications	8	2	16	2021	8.33	8.54	Q
		CC-8	Regional Planning and Development	8	6	48	2022			
		CC-9	Economic Geography	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	GE-4	Green Technology	9	6	54	2022			
	GEOGRAPHY	SEC-2	Field Work	9	2	18	2022			
V	GEOGRAPHY	CC-11	Research Methodology and Field Work	7	6	42	2022	6.75	6.75	Q
		CC-12	Remote Sensing and GIS	8	6	48	2022			
	GEOGRAPHY	DSE-1	Cultural and Settlement Geography	7	6	42	2022			
		DSE-2	Population Geography	5	6	30	2022			
VI	GEOGRAPHY	CC-13	Evolution of Geographical Thought	9	6	54	2023	8.75	8.75	Q
		CC-14	Disaster Management	9	6	54	2023			
	GEOGRAPHY	DSE-3	Resource Geography	8	6	48	2023			
		DSE-4	Soil and Bio Geography	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.17</b>							<b>Letter Grade in CGPA : A+</b>	<b>Result : Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.25</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course	9 and above	O (Outstanding)	5 to below 6	B (Average)	Q – Qualified
GE – Generic Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	7 to below 8	A (Very Good)	Below 4	F (Fail)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5.0 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	Percentage	Grade Point	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUMITA REJA

Roll No. 200340900132

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.18	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.70	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.08	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	10	2	20	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	10	6	60	2022	10.00	9.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	7	6	42	2022	6.50	6.50	Q
		CC-12	Genetics	6	6	36	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	7	6	42	2022			
		DSE-2	Parasitology	6	6	36	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	9	6	54	2023	8.00	8.00	Q
		CC-14	Evolutionary Biology	8	6	48	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	7	6	42	2023			
		DSE-4	Endocrinology	8	6	48	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.33</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.39</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUMYA MONDAL

Roll No. 200340900133

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	9	6	54	2020	9.00	8.45	Q
		CC-2	Mechanics	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	9	6	54	2021	9.00	8.70	Q
		CC-4	Waves and Optics	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.00	9.08	Q
		CC-6	Thermal Physics	9	6	54	2021			
		CC-7	Digital Systems and Applications	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	10	2	20	2021			
IV	PHYSICS	CC-8	Mathematical Physics-III	9	6	54	2022	8.67	8.85	Q
		CC-9	Elements of Modern Physics	9	6	54	2022			
		CC-10	Analog Systems & Applications	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20	2022				
V	PHYSICS	CC-11	Quantum Mechanics and Applications	7	6	42	2022	7.00	7.00	Q
		CC-12	Solid State Physics	9	6	54	2022			
	PHYSICS	DSE-1	Advanced Mathematical Physics	7	6	42	2022			
		DSE-2	Classical Dynamics	5	6	30	2022			
VI	PHYSICS	CC-13	Electromagnetic Theory	8	6	48	2023	7.50	7.50	Q
		CC-14	Statistical Mechanics	8	6	48	2023			
	PHYSICS	DSE-3	Nuclear and Particle Physics	7	6	42	2023			
		DSE-4	Astronomy and Astrophysics	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.17</b>							Letter Grade in CGPA : <b>A+</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.27</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:	
	CGPA	Letter Grade
90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%
50% and above but below 60%	6	40% and above but below 50%
35% and above but below 40%	4	Below 35%
		Not Awarded (NA)

= (SGPA or CGPA × 10) - 5.0  
 \*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUMYADEV TUDU

Roll No. 200340900134

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	8	6	48	2020	8.50	7.91	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	9.00	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	10	6	60	2021	9.67	9.54	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	9.77	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	7	6	42	2022	7.25	7.25	Q
		CC-12	Theory of Computation	7	6	42	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	8	6	48	2022			
		DSE-2	System Programming	7	6	42	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	8	6	48	2023	8.75	8.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	8	6	48	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.78</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.73</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUMYADIP NANDI

Roll No. 200340900137

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	10	6	60	2020	10.00	9.18	Q
		CC-2	Computer System Architecture	10	6	60	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	10	6	60	2021	10.00	9.60	Q
		CC-4	Discrete Structure	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	9.77	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	9	6	54	2022	9.50	9.50	Q
		CC-12	Theory of Computation	9	6	54	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	10	6	60	2022			
		DSE-2	System Programming	10	6	60	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.72</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.52</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)







**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUMYARAJ BANERJEE

Roll No. 200340900138

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.50	8.18	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.70	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	8	6	48	2022	8.00	8.00	Q
		CC-12	Organic Chemistry-V	7	6	42	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	8	6	48	2022			
		DSE-2	Analytical Methods in Chemistry	9	6	54	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	8	6	48	2023	9.00	9.00	Q
		CC-14	Physical Chemistry-IV	9	6	54	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	10	6	60	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.72</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.66</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUVAGHYA SAMUI

Roll No. 200340900139

Honours: PHYSICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	PHYSICS	CC-1	Mathematical Physics-I	9	6	54	2020	9.00	7.73	Q
		CC-2	Mechanics	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	7	6	42	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	PHYSICS	CC-3	Electricity and Magnetism	10	6	60	2021	9.50	9.00	Q
		CC-4	Waves and Optics	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Communicative English	9	2	18	2021			
III	PHYSICS	CC-5	Mathematical Physics-II	9	6	54	2021	9.67	9.54	Q
		CC-6	Thermal Physics	10	6	60	2021			
		CC-7	Digital Systems and Applications	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
IV	PHYSICS	SEC-1	Renewable Energy and Energy Harvesting	10	2	20	2021	9.33	9.31	Q
		CC-8	Mathematical Physics-III	9	6	54	2022			
		CC-9	Elements of Modern Physics	10	6	60	2022			
	CC-10	Analog Systems & Applications	9	6	54	2022				
V	PHYSICS	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022	7.75	7.75	Q
		PHYSICS	SEC-2	Electrical Circuits and Network Skills	10	2	20			
	PHYSICS	CC-11	Quantum Mechanics and Applications	7	6	42	2022			
		DSE-1	Advanced Mathematical Physics	8	6	48	2022			
VI	PHYSICS	DSE-2	Classical Dynamics	6	6	36	2022	7.75	7.75	Q
		CC-13	Electromagnetic Theory	8	6	48	2023			
	CC-14	Statistical Mechanics	9	6	54	2023				
	PHYSICS	DSE-3	Nuclear and Particle Physics	7	6	42	2023			
DSE-4		Astronomy and Astrophysics	7	6	42	2023				
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.67</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.54</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^n (V_i \times S_i)}{\sum_{i=1}^n V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course					Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUVIK GHOSH

Roll No. 200340900140

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	10	6	60	2020	9.50	8.27	Q
		CC-2	Computer System Architecture	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.50	8.90	Q
		CC-4	Discrete Structure	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.31	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	9.77	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	9	6	54	2022	9.00	9.00	Q
		CC-12	Theory of Computation	8	6	48	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	9	6	54	2022			
		DSE-2	System Programming	10	6	60	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.50</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.20</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOUVIK NAYAK

Roll No. 200340900141

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	9	6	54	2020	8.50	7.73	Q
		CC-2	Computer System Architecture	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	9	6	54	2021	9.00	8.70	Q
		CC-4	Discrete Structure	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	9	6	54	2021	9.33	9.00	Q
		CC-6	Operating Systems	9	6	54	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	9	2	18	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	9	6	54	2022	9.00	9.08	Q
		CC-9	Software Engineering	9	6	54	2022			
		CC-10	Database Management System	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	8	6	48	2022	7.25	7.25	Q
		CC-12	Theory of Computation	7	6	42	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	6	6	36	2022			
		DSE-2	System Programming	8	6	48	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	10.00	10.00	Q
		CC-14	Computer Graphics	10	6	60	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.83</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.65</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SOVAN GHOSH

Roll No. 200340900142

Honours: BOTANY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	BOTANY	CC-1	Microbiology and Phycology	8	6	48	2020	8.50	8.36	Q
		CC-2	Archegoniatae	9	6	54	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	BOTANY	CC-3	Mycology and Phytopathology	8	6	48	2021	9.00	8.70	Q
		CC-4	Morphology and Anatomy of Angiosperms	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	BOTANY	CC-5	Plant Ecology and Phytogeography	9	6	54	2021	9.00	9.00	Q
		CC-6	Plant Systematics	9	6	54	2021			
		CC-7	Economic Botany	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
	BOTANY	SEC-1	Agricultural Botany	9	2	18	2021			
IV	BOTANY	CC-8	Palaeobotany & Palynology	8	6	48	2022	8.67	8.77	Q
		CC-9	Biomolecules and Cell Biology	9	6	54	2022			
		CC-10	Molecular Biology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	BOTANY	SEC-2	Biofertilizers	9	2	18	2022			
V	BOTANY	CC-11	Plant Physiology	7	6	42	2022	6.50	6.50	Q
		CC-12	Plant Metabolism	6	6	36	2022			
	BOTANY	DSE-1	Reproductive Biology of Angiosperms	6	6	36	2022			
		DSE-2	Natural Resource Management	7	6	42	2022			
VI	BOTANY	CC-13	Genetics & Plant Breeding	6	6	36	2023	7.50	7.50	Q
		CC-14	Plant Biotechnology	7	6	42	2023			
	BOTANY	DSE-3	Plant Evolution & Biodiversity	8	6	48	2023			
		DSE-4	Industrial and Environmental Microbiology	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.00</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.14</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

= (SGPA or CGPA × 10) - 5.0  
 \*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SRIJITA DE

Roll No. 200340900145

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.18	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	9.00	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	9.00	9.08	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	7	6	42	2022	5.75	5.75	Q
		CC-12	Genetics	5	6	30	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	5	6	30	2022			
		DSE-2	Parasitology	6	6	36	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	7	6	42	2023	6.25	6.25	Q
		CC-14	Evolutionary Biology	6	6	36	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	5	6	30	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.61</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.87</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs. <5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SRISH BHATTACHARYYA

Roll No. 200340900146

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	8	6	48	2020	8.00	7.91	Q
		CC-2	Physical Chemistry-I	8	6	48	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	8.50	8.30	Q
		CC-4	Organic Chemistry-II	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.00	9.00	Q
		CC-6	Inorganic Chemistry-II	9	6	54	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	9	2	18	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.00	9.00	Q
		CC-9	Inorganic Chemistry-III	9	6	54	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	5	6	30	2022	6.25	6.25	Q
		CC-12	Organic Chemistry-V	6	6	36	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	7	6	42	2022			
		DSE-2	Analytical Methods in Chemistry	7	6	42	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	7	6	42	2023	8.00	8.00	Q
		CC-14	Physical Chemistry-IV	7	6	42	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	9	6	54	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.00</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.10</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUBHADIP DAS

Roll No. 200340900147

Honours: ENVIRONMENTAL SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ENVIRONMENTAL SCIENCE	CC-1	Fundamentals of Environment	10	6	60	2020	9.50	8.73	Q
		CC-2	Environmental Biology	9	6	54	2020			
	BOTANY	Biodiversity (Microbes, Algae, Fungi and Archegoniatae)	9	6	54	2020				
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ENVIRONMENTAL SCIENCE	CC-3	Environmental Chemistry	10	6	60	2021	10.00	9.70	Q
		CC-4	Environmental Physics	10	6	60	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Communicative English	10	2	20	2021			
III	ENVIRONMENTAL SCIENCE	CC-5	Earth Science	9	6	54	2021	9.33	9.23	Q
		CC-6	Environmental Resources	10	6	60	2021			
		CC-7	Green Chemistry & Environmental Applications	9	6	54	2021			
	ZOOLOGY	GE-3	Physiology and Biochemistry	9	6	54	2021			
	ENVIRONMENTAL SCIENCE	SEC-1	Remote Sensing & Geographical Information System (GIS)	9	2	18	2021			
IV	ENVIRONMENTAL SCIENCE	CC-8	Ecotoxicology & Environmental Biotechnology	10	6	60	2022	10.00	9.69	Q
		CC-9	Environmental Laws, Policies & Environmental Impact Assessment	10	6	60	2022			
		CC-10	Natural Hazards & Management & Waste Management	10	6	60	2022			
	BOTANY	GE-4	Plant Physiology and Metabolism	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	SEC-2	Conservation & Ecotourism	9	2	18	2022			
V	ENVIRONMENTAL SCIENCE	CC-11	Environmental Pollution	8	6	48	2022	8.50	8.50	Q
		CC-12	Environmental Engineering & Statistics	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	DSE-1	Environmental Pollution & Monitoring Techniques	8	6	48	2022			
		DSE-2	Environmental Health & Stress Physiology	9	6	54	2022			
VI	ENVIRONMENTAL SCIENCE	CC-13	Environmental Economics & Management	10	6	60	2023	9.25	9.25	Q
		CC-14	Wildlife Management & Conservation	9	6	54	2023			
	ENVIRONMENTAL SCIENCE	DSE-3	Atmosphere & Global Climate Change	9	6	54	2023			
		DSE-4	Solid Waste Management	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.33</b>							Letter Grade in CGPA : <b>O</b>	Result : <b>Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.18</b>										

Date of Publication of Result : 25.08.2023


$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i}$$

$$CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUBHRADIP BHATTACHARYYA

Roll No. 200340900150

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	10	6	60	2020	10.00	8.73	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	8	6	48	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	10	6	60	2021	10.00	9.60	Q
		CC-4	Differential Equations and Vector Calculus	10	6	60	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	10	6	60	2021	9.67	9.23	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	9	6	54	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	8	6	48	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	10.00	9.54	Q
		CC-9	Multivariate Calculus	10	6	60	2022			
		CC-10	Ring Theory and Linear Algebra I	10	6	60	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	8	6	48	2022			
	MATHEMATICS	SEC-2	Graph Theory	10	2	20	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	7	6	42	2022	7.00	7.00	Q
		CC-12	Mechanics I	8	6	48	2022			
	MATHEMATICS	DSE-1	Point Set Topology	7	6	42	2022			
		DSE-2	Probability & Statistics	6	6	36	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023	8.00	8.00	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	8	6	48	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.83</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.68</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUDIP DEY

Roll No. 200340900153

Honours: MATHEMATICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	MATHEMATICS	CC-1	Calculus, Geometry & Differential Equations	8	6	48	2020	9.00	8.45	Q
		CC-2	Algebra	10	6	60	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	MATHEMATICS	CC-3	Real Analysis	9	6	54	2021	9.00	9.00	Q
		CC-4	Differential Equations and Vector Calculus	9	6	54	2021			
	PHYSICS	GE-2	Electricity and Magnetism	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	MATHEMATICS	CC-5	Theory of Real Functions & Introduction to Metric Spaces	9	6	54	2021	9.00	9.00	Q
		CC-6	Group Theory I	10	6	60	2021			
		CC-7	Numerical Methods	8	6	48	2021			
	PHYSICS	GE-3	Thermal Physics and Statistical Mechanics	9	6	54	2021			
	MATHEMATICS	SEC-1	Logic and Sets	9	2	18	2021			
IV	MATHEMATICS	CC-8	Riemann Integration and Series of Functions	10	6	60	2022	9.67	9.31	Q
		CC-9	Multivariate Calculus	10	6	60	2022			
		CC-10	Ring Theory and Linear Algebra I	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	MATHEMATICS	SEC-2	Graph Theory	7	2	14	2022			
V	MATHEMATICS	CC-11	Partial Differential Equations and Applications	6	6	36	2022	5.50	5.50	Q
		CC-12	Mechanics I	5	6	30	2022			
	MATHEMATICS	DSE-1	Point Set Topology	5	6	30	2022			
		DSE-2	Probability & Statistics	6	6	36	2022			
VI	MATHEMATICS	CC-13	Metric Spaces and Complex Analysis	7	6	42	2023	7.50	7.50	Q
		CC-14	Ring Theory and Linear Algebra II	7	6	42	2023			
	MATHEMATICS	DSE-3	Group Theory II	6	6	36	2023			
		DSE-4	Project Work	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.00</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.13</b>										

Date of Publication of Result : 25.08.2023

$$SGPA(S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUMAN PATRA

Roll No. 200340900157

Honours: ECONOMICS										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ECONOMICS	CC-1	Introductory Microeconomics	6	6	36	2020	7.00	7.64	Q
		CC-2	Statistics-I	8	6	48	2020			
	MATHEMATICS	GE-1	Differential Calculus	10	6	60	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ECONOMICS	CC-3	Introductory Macroeconomics	6	6	36	2021	7.00	7.40	Q
		CC-4	Mathematical Economics-I	8	6	48	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ECONOMICS	CC-5	Intermediate Microeconomics	8	6	48	2021	8.33	8.31	Q
		CC-6	Intermediate Macroeconomics	9	6	54	2021			
		CC-7	Mathematical Economics -II	8	6	48	2021			
	COMPUTER SCIENCE	GE-3	Operating Systems	8	6	48	2021			
ECONOMICS	SEC-1	Managerial Economics	9	2	18	2021				
IV	ECONOMICS	CC-8	Selected Features of Indian Economy	7	6	42	2022	7.33	8.15	Q
		CC-9	Statistics-II	7	6	42	2022			
		CC-10	Development Economics	8	6	48	2022			
	COMPUTER SCIENCE	GE-4	Computer System Architecture	10	6	60	2022			
ECONOMICS	SEC-2	Basic Computer Applications	10	2	20	2022				
V	ECONOMICS	CC-11	International Economics	6	6	36	2022	6.25	6.25	Q
		CC-12	Money and Banking	6	6	36	2022			
	ECONOMICS	DSE-1	Rural Development	6	6	36	2022			
		DSE-2	Public Economics	7	6	42	2022			
VI	ECONOMICS	CC-13	Basic Econometrics	4	6	24	2023	6.25	6.25	Q
		CC-14	Field Survey & Project Report	8	6	48	2023			
	ECONOMICS	DSE-3	Political Economy	7	6	42	2023			
		DSE-4	Entrepreneurship Development	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>6.94</b>							<b>Letter Grade in CGPA : B+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.35</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
		= (SGPA or CGPA × 10) - 5.0	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUMAN MONDAL

Roll No. 200340900158

Honours: CHEMISTRY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	CHEMISTRY	CC-1	Organic Chemistry-I	9	6	54	2020	9.00	8.45	Q
		CC-2	Physical Chemistry-I	9	6	54	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	CHEMISTRY	CC-3	Inorganic Chemistry-I	9	6	54	2021	9.00	8.60	Q
		CC-4	Organic Chemistry-II	9	6	54	2021			
	MATHEMATICS	GE-2	Differential Equations	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	CHEMISTRY	CC-5	Physical Chemistry-II	9	6	54	2021	9.33	9.08	Q
		CC-6	Inorganic Chemistry-II	10	6	60	2021			
		CC-7	Organic Chemistry-III	9	6	54	2021			
	MATHEMATICS	GE-3	Real Analysis	8	6	48	2021			
CHEMISTRY	SEC-1	Basic Analytical Chemistry	10	2	20	2021				
IV	CHEMISTRY	CC-8	Physical Chemistry-III	9	6	54	2022	9.33	9.23	Q
		CC-9	Inorganic Chemistry-III	10	6	60	2022			
		CC-10	Organic Chemistry - IV	9	6	54	2022			
	PHYSICS	GE-4	Waves and Optics	9	6	54	2022			
CHEMISTRY	SEC-2	Pharmaceutical Chemistry	9	2	18	2022				
V	CHEMISTRY	CC-11	Inorganic Chemistry-IV	6	6	36	2022	7.25	7.25	Q
		CC-12	Organic Chemistry-V	6	6	36	2022			
	CHEMISTRY	DSE-1	Advanced Physical Chemistry	8	6	48	2022			
		DSE-2	Analytical Methods in Chemistry	9	6	54	2022			
VI	CHEMISTRY	CC-13	Inorganic Chemistry-V	8	6	48	2023	8.75	8.75	Q
		CC-14	Physical Chemistry-IV	8	6	48	2023			
	CHEMISTRY	DSE-3	Polymer Chemistry	9	6	54	2023			
		DSE-4	Dissertation Followed by Power Point Presentation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.67</b>							<b>Letter Grade in CGPA : A+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.58</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	90% to 100%	10	80% and above but below 90%
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUMANA RUIDAS

Roll No. 200340900160

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	8	6	48	2020	7.50	7.82	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.60	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	8.77	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	8	6	48	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	5	6	30	2022	4.50	4.50	Q
		CC-12	Genetics	4	6	24	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	5	6	30	2022			
		DSE-2	Parasitology	4	6	24	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	6	6	36	2023	5.25	5.25	Q
		CC-14	Evolutionary Biology	4	6	24	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	5	6	30	2023			
		DSE-4	Endocrinology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>6.94</b>							<b>Letter Grade in CGPA : B+</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.28</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUPROVA GHOSH

Roll No. 200340900162

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	9	6	54	2020	8.50	8.18	Q
		CC-2	Ecology	8	6	48	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	6	4	24	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.70	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	8.67	8.77	Q
		CC-9	Animal Physiology: Life Sustaining Systems	9	6	54	2022			
		CC-10	Immunology	8	6	48	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	9	2	18	2022			
V	ZOOLOGY	CC-11	Molecular Biology	6	6	36	2022	6.00	6.00	Q
		CC-12	Genetics	5	6	30	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	6	6	36	2022			
		DSE-2	Parasitology	7	6	42	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	7	6	42	2023	6.25	6.25	Q
		CC-14	Evolutionary Biology	6	6	36	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	5	6	30	2023			
		DSE-4	Endocrinology	7	6	42	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.61</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.82</b>										

Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:			
	90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7	
50% and above but below 60%	6	40% and above but below 50%	5	
35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SUSMITA MONDAL

Roll No. 200340900163

Honours: ZOOLOGY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	ZOOLOGY	CC-1	Non-chordates I	8	6	48	2020	7.50	7.45	Q
		CC-2	Ecology	7	6	42	2020			
	CHEMISTRY	GE-1	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	5	4	20	2020			
II	ZOOLOGY	CC-3	Non-chordates II	9	6	54	2021	9.00	8.60	Q
		CC-4	Cell Biology	9	6	54	2021			
	BOTANY	GE-2	Plant Ecology and Taxonomy	8	6	48	2021			
	Communicative English/MIL	AECC-2	Bengali	8	2	16	2021			
III	ZOOLOGY	CC-5	Chordates	9	6	54	2021	9.00	9.00	Q
		CC-6	Animal Physiology: Controlling and Coordinating Systems	9	6	54	2021			
		CC-7	Fundamentals of Biochemistry	9	6	54	2021			
	BOTANY	GE-3	Plant Anatomy and Embryology	9	6	54	2021			
	ZOOLOGY	SEC-1	Sericulture	9	2	18	2021			
IV	ZOOLOGY	CC-8	Comparative Anatomy of Vertebrates	9	6	54	2022	9.33	9.31	Q
		CC-9	Animal Physiology: Life Sustaining Systems	10	6	60	2022			
		CC-10	Immunology	9	6	54	2022			
	CHEMISTRY	GE-4	Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry	9	6	54	2022			
	ZOOLOGY	SEC-2	Aquarium Fish Keeping	10	2	20	2022			
V	ZOOLOGY	CC-11	Molecular Biology	5	6	30	2022	5.25	5.25	Q
		CC-12	Genetics	5	6	30	2022			
	ZOOLOGY	DSE-1	Animal Biotechnology	6	6	36	2022			
		DSE-2	Parasitology	5	6	30	2022			
VI	ZOOLOGY	CC-13	Developmental Biology	7	6	42	2023	5.75	5.75	Q
		CC-14	Evolutionary Biology	5	6	30	2023			
	ZOOLOGY	DSE-3	Animal Behaviour	5	6	30	2023			
		DSE-4	Endocrinology	6	6	36	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>7.33</b>							<b>Letter Grade in CGPA : A</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>7.58</b>										


Date of Publication of Result : 25.08.2023

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "Not Computed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	



**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SWARNALI BISWAS

Roll No. 200340900164

Honours: COMPUTER SCIENCE										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	COMPUTER SCIENCE	CC-1	Programming Fundamentals using C/C++	10	6	60	2020	10.00	9.18	Q
		CC-2	Computer System Architecture	10	6	60	2020			
	PHYSICS	GE-1	Mechanics	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	COMPUTER SCIENCE	CC-3	Programming in Java	10	6	60	2021	10.00	9.60	Q
		CC-4	Discrete Structure	10	6	60	2021			
	MATHEMATICS	GE-2	Differential Equations	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	COMPUTER SCIENCE	CC-5	Data Structure	10	6	60	2021	10.00	9.77	Q
		CC-6	Operating Systems	10	6	60	2021			
		CC-7	Computer Networks	10	6	60	2021			
	MATHEMATICS	GE-3	Real Analysis	9	6	54	2021			
COMPUTER SCIENCE	SEC-1	Programming in Python	10	2	20	2021				
IV	COMPUTER SCIENCE	CC-8	Design and Analysis of Algorithms	10	6	60	2022	10.00	10.00	Q
		CC-9	Software Engineering	10	6	60	2022			
		CC-10	Database Management System	10	6	60	2022			
	PHYSICS	GE-4	Waves and Optics	10	6	60	2022			
COMPUTER SCIENCE	SEC-2	UNIX / Linux Programming	10	2	20	2022				
V	COMPUTER SCIENCE	CC-11	Internet Technologies	9	6	54	2022	9.00	9.00	Q
		CC-12	Theory of Computation	8	6	48	2022			
	COMPUTER SCIENCE	DSE-1	Microprocessors	10	6	60	2022			
		DSE-2	System Programming	9	6	54	2022			
VI	COMPUTER SCIENCE	CC-13	Artificial Intelligence	10	6	60	2023	9.75	9.75	Q
		CC-14	Computer Graphics	9	6	54	2023			
	COMPUTER SCIENCE	DSE-3	Soft Computing	10	6	60	2023			
		DSE-4	Project Work / Dissertation	10	6	60	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>9.72</b>							<b>Letter Grade in CGPA : O</b>		<b>Result : Q</b>	
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>9.56</b>										

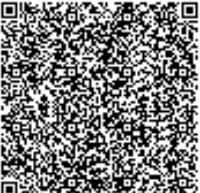
Date of Publication of Result : 25.08.2023

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*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
CC – Core Course	CGPA	Letter Grade	CGPA	Letter Grade	Q – Qualified
GE – Generic Elective	9 and above	O (Outstanding)	5 to below 6	B (Average)	SNC – Semester Not Cleared
DSE – Discipline Specific Elective	8 to below 9	A+ (Excellent)	4 to below 5	P (Pass)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	7 to below 8	A (Very Good)	Below 4	F (Fail)	
AECC – Ability Enhancement Compulsory Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

	Grade Point Norms				<b>Percentage Conversion Formula:</b> = (SGPA or CGPA × 10) - 5.0 *Letter Grade in CGPA is awarded on the basis of CCs and DSEs
	90% to 100%	10	80% and above but below 90%	9	
	70% and above but below 80%	8	60% and above but below 70%	7	
	50% and above but below 60%	6	40% and above but below 50%	5	
	35% and above but below 40%	4	Below 35%	Not Awarded (NA)	





**THE UNIVERSITY OF BURDWAN**  
**B.SC. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2023 UNDER CBCS**  
**GRADE CARD**

Name : SWARUP SOM

Roll No. 200340900165

Honours: GEOGRAPHY										
Semester No.	Subject	Course Code	Course Title	Grade (G)	Credit Value (V)	Grade Point (G×V)	Credit Retained Year	SGPA on the basis of		Result Code
								CCs & DSEs	All Courses	
I	GEOGRAPHY	CC-1	Geotectonics and Geomorphology	9	6	54	2020	8.50	8.36	Q
		CC-2	Cartographic Techniques and Geological map study	8	6	48	2020			
	ZOOLOGY	GE-1	Animal Diversity	9	6	54	2020			
	ENVIRONMENTAL STUDIES	AECC-1	Fundamentals of Environmental Studies	7	4	28	2020			
II	GEOGRAPHY	CC-3	Human Geography	9	6	54	2021	9.00	9.00	Q
		CC-4	Cartograms, Survey and Thematic Mapping	9	6	54	2021			
	ZOOLOGY	GE-2	Comparative Anatomy & Developmental Biology of Vertebrates	9	6	54	2021			
	Communicative English/MIL	AECC-2	Bengali	9	2	18	2021			
III	GEOGRAPHY	CC-5	Climatology	9	6	54	2021	9.00	9.00	Q
		CC-6	Statistical Methods in Geography	9	6	54	2021			
		CC-7	Geography of India	9	6	54	2021			
	ENVIRONMENTAL SCIENCE	GE-3	Environmental Pollution	9	6	54	2021			
IV	GEOGRAPHY	SEC-1	Computer Basics and Computer Applications	9	2	18	2021	8.33	8.54	Q
		CC-8	Regional Planning and Development	8	6	48	2022			
		CC-9	Economic Geography	9	6	54	2022			
	ENVIRONMENTAL SCIENCE	GE-4	Green Technology	9	6	54	2022			
V	GEOGRAPHY	SEC-2	Field Work	9	2	18	2022	7.75	7.75	Q
		CC-11	Research Methodology and Field Work	8	6	48	2022			
	CC-12	Remote Sensing and GIS	9	6	54	2022				
	GEOGRAPHY	DSE-1	Cultural and Settlement Geography	8	6	48	2022			
DSE-2		Population Geography	6	6	36	2022				
VI	GEOGRAPHY	CC-13	Evolution of Geographical Thought	8	6	48	2023	8.50	8.50	Q
		CC-14	Disaster Management	9	6	54	2023			
	GEOGRAPHY	DSE-3	Resource Geography	8	6	48	2023			
		DSE-4	Soil and Bio Geography	9	6	54	2023			
CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : <b>8.44</b>							<b>Letter Grade in CGPA : A+</b>	<b>Result : Q</b>		
CGPA (Cumulative Grade Point Average) on the basis of All Courses : <b>8.52</b>										

Date of Publication of Result : 25.08.2023

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*Anindya Zohi Pal*

**Controller of Examinations**

Course Type	CGPA Letter Grades				Result Codes
	CGPA	Letter Grade	CGPA	Letter Grade	
CC – Core Course	9 and above	O (Outstanding)	5 to below 6	B (Average)	Q – Qualified
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DSE – Discipline Specific Elective	7 to below 8	A (Very Good)	Below 4	F (Fail)	PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or any one or more semester(s) is/are not cleared]
SEC – Skill Enhancement Course	6 to below 7	B+ (Good)			NC denotes "NotComputed" due to absence in C1, C2 and C4 as applicable.

Grade Point Norms	Percentage Conversion Formula:		
	Percentage	Grade Point	
90% to 100%	10	80% and above but below 90%	9
70% and above but below 80%	8	60% and above but below 70%	7
50% and above but below 60%	6	40% and above but below 50%	5
35% and above but below 40%	4	Below 35%	Not Awarded (NA)

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs