B.C.A(Hons)1st Semester Examination,2020 Paper Name: Introduction to C Programming Paper Code: BCA-102

Subject: Computer Application

F.M:80 Time: 3Hrs 1. Answer any five Questions: 5x10=50(a) What is string? How does it differ from character array? Write a program in C that simulates the standard string library function streat(). 2+2+6 (b) What is pointer? Explain dynamic memory allocation technique in C language with an example. 2+8(c) Write a program in C that multiplies two 3x3 matrices. 10 (d) What is function? Design a simple calculator using C language. 2+8(e) What is Recursion? Explain it with a suitable example .Write a recursive function that reverses a string. 2+4+4 (f) Write a program in C to sort a set of given numbers, stored in an array 10 (g) Write a short note on the following. 5+5 Pre processing in C (i)

(ii)

File Handling in C

2. Answer any six Questions:

(h) Discuss different storage classes of C.

6x5=30

5

(a) What is an array? Write a program in C that determines largest number of an array.2+3	
(b) Show the differences between call by value and call by reference technique in C with an example.	language 5
(c) Discuss if-else-if ladder with an example. Differentiate between break and statements.	continue 3+2
(d) Write a program in C that determines whether a given number is prime or not.	5
(e) What is decision table? Explain it with a suitable example.	5
(f) Differentiate between structure and union.	5
(g) Draw a flow chart to find GCD of two integers.	5