

THE UNIVERSITY OF BURDWAN

B. Sc. 3rd Semester (Honours)

Examination, 2020 (CBCS)

SUBJECT: PHYSIOLOGY

Paper: CC-VII

(FUNCTIONS OF THE NERVOUS SYSTEM)

Time: 2 Hours

Full Marks: 40

The figures in the right hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable. Examinees are instructed to submit the scanned copies/photographs of their answer scripts within 30 minutes after the completion of examination

Answer **any eight** of the following questions. **(8 X 5)**

1. What is referred pain? Outline the central gate control theory of pain perception. (5)
2. Diagrammatically represent the pathway of tract of Goll and Burdach and mention their functions. (5)
3. Indicate the significance of oral administration of levo-DOPA in place of DOPA.
4. Write in brief the functions of basal ganglia. (5)
5. What is cortical evoked potential? State its significance? (5)
6. Compare the anatomical and functional aspects of sympathetic and parasympathetic outflow. What are paravertebral ganglia? (5)
7. Describe with evidences the asymmetrical organization of brain for cognitive functions. (5)
8. Define short term memory. Illustrate the mechanism of memory consolidation. (5)
9. State the role of cerebellum in regulation of goal-oriented fine voluntary motor activity. (5)
10. Illustrate Papez circuit. Mention its significance in emotion. (5)