

**B.Sc. Semester-III Examination, 2022-23****PHYSIOLOGY [Honours]****Course ID : 32513 Course Code : SH/PHY/303C/C-7(T)****Course Title : Functions of the Nervous System**

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** of the following questions:

1×5=5

- What is dyslexia?
- Define Bell-Magendie Law.
- Mention the reason of dementia.
- What is rage phenomena?
- Write the role of gamma motor neurone.
- What is 'Renshaw cell' inhibition?
- Which area is called silent area of cerebral cortex?
- What is circumventricular organ?

2. Answer any **two** questions of the following:

5×2=10

- Discuss the mechanism of formation of short term memory. 5
- What is reticular formation? Explain the role of ARAS in man. 1+4
- "Thalamus acts as a sensory relay station" – Justify the statement. 5
- 'Autonomic nervous system plays a dual role in cardiovascular homeostasis' – Explain. 5

3. Answer any **one** question of the following:

10×1=10

- Describe with a diagram about the neural pathway for perception of pain sensation. What is papez circuit? 7+3
- Write the origin and course of pyramidal nerve tract with diagram. Differentiate between lower and upper motor neuron. 6+4

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