

**B.Sc. 3<sup>rd</sup> Semester (Honours) Examination, 2020-21**

**PHYSIOLOGY**

**Course ID: 32513**

**Paper: SH/PHY/303/C-7 (T)**

**Course Title: Functions of the Nervous System**

**Time: 1 Hour 15 Minutes**

**Full Marks: 25**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**1. Answer any five questions from the following:**

**1×5=5**

- (a) What is referred pain?
- (b) What is Broca's aphasia?
- (c) What is Brown-Sequard syndrome?
- (d) Define stretch reflex.
- (e) What is decerebrate rigidity?
- (f) Define amnesia.
- (g) What is paradoxical sleep?
- (h) Mention the cause of Parkinson's disease.

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

**5×2=10**

- (a) What do you mean by evoked cortical potential? Mention the nature of EEG curve during sleep. 1+4= 5
- (b) What is conditioned learning? Classify memory with example. 2+3=5
- (c) Name the nuclei of cerebellum. Describe in brief the functions of cerebellum. 1+4=5
- (d) What is memory? Describe the neurophysiological basis of memory. 1+4= 5

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

**10×1=10**

- (a) Differentiate between pyramidal and extra-pyramidal tract. Describe the origin, course, termination and functions of pyramidal tract. 2+4+2+2=10
- (b) What is ARAS? Write the neurophysiology of ARAS in man. State the nuclear connections of thalamus. 2+3+5=10