

Reg. No .....

Name .....

23U350

**B. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**

**SEMESTER 3 : COMPLEMENTARY COURSE FOR PSYCHOLOGY**

**COURSE : 19U3CPBHS03 : NEUROPHYSIOLOGY OF BEHAVIOUR I PAPER - III**

*(For Regular 2022 Admission and Improvement / Supplementary 2021/2020 Admissions)*

Time : Three Hours

Max. Marks: 75

**PART A**

**Answer All (1 mark each)**

1. Primary auditory area is located in which lobe of the Cerebrum?
2. Name the neuropeptide that enhances the perception of pain.
3. The cerebral ventricles, central canal and subarachnoid space are filled with \_\_\_\_\_.
4. How many pairs of Lumbar Nerves are there in the human Nervous System?
5. Name the scanning technique that involves use of strong magnetic fields and radio waves to produce detailed images of the inside of the body.
6. Name the extensive network of neurons confined to the wall of the GastroIntestinal Tract.
7. Name the category of neuropeptides that were first discovered in the gut.
8. Name the basic structural and functional unit of the nervous system
9. What is the existence of an inherited bias toward right-handedness called?
10. Which brain structure is most responsible for our balance, posture and muscle tone?  
**(1 x 10 = 10)**

**PART B**

**Answer any 8 (2 marks each)**

11. How does Agraphia differ from Alexia? Explain.
12. Why is the neocortex named so?
13. What are Chemoreceptors? Give examples.
14. What is decremental conduction?
15. Differentiate between Myelencephalon and Metencephalon.
16. What is all-or-none principle?
17. Why is Ptosis or drooping of the upper eyelid a possible effect of Midbrain impairment?
18. What are Mechanoreceptors? Give examples.
19. Write a short note on Wernicke's Aphasia.
20. Differentiate between Cranial and Spinal Nerves.  
**(2 x 8 = 16)**

**PART C**

**Answer any 5 (5 marks each)**

21. Write a short note on Neuroglia of the Central Nervous System
22. What are the functions of the Enteric Nervous System?
23. Write a note on Neocortex.
24. Briefly explain the layers of meninges of brain.

25. Differentiate between the functions of Thalamus and Hypothalamus.
26. Explain the role of a neuron in transmission of impulses.
27. Write a note on the Spatial Skills of the Right Hemisphere.

**(5 x 5 = 25)**

**PART D**

**Answer any 2 (12 marks each)**

28. Write an essay on the lobes of the Cerebrum.
29. Write an essay on Hemispheric asymmetry, handedness and cerebral dominance.
30. Write an essay on the Peripheral Nervous System.
31. Explain in detail the monoamine neurotransmitters.

**(12 x 2 = 24)**