TB243366N

Reg. No :.....

Name :.....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2023 ADMISSIONS REGULAR

SEMESTER III - COMPLEMENTARY COURSE 1

ZY3B02B23 - Neurophysiology of Behaviour

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. Briefly explain the structure and function of Rough Endoplasmic Reticulum.
2. Describe the functions of Soma.
3. Write a note on Ribosomes.
4. Summarize the main function of the superior and inferior colliculi.
5. Explain the differences between the forebrain, midbrain, and hindbrain.
6. Write a note on central nervous system, and identify its primary components.
7. Explain the role of pons.
8. State the two main divisions of the PNS and its functions.
9. State some examples of involuntary actions controlled by the autonomic nervous system.
10. Explain the effects of sympathetic nervous system activation on the body.
11. Identify where White Matter is located in Brain and Spinal Cord.
12. Identify the two hemispheres of the neocortex and state its functions.

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Write a note on Endoplasmic Reticulum.
14. Write a note on Dendrite and Axons.
15. Explain the functions of the principle structures of Mesencephalon.
16. Explain the functions of the Cerebral Cortex.
17. Briefly describe the functions of the Sympathetic division.
18. Compare and contrast the anatomy and functions of the sympathetic and parasympathetic nervous systems.
19. Explain how the Dichotic Listening Test demonstrate lateralization in the brain.
20. State some common effects of injury to the right hemisphere of the brain.
21. Write a note on Brain Lateralization.

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. Describe in detail Resting Potential and Action Potential.
23. Describe the structure and functions of Forebrain.
24. Describe the structure and functions of Autonomic and Somatic Nervous System.
25. Even if corpus callosum is completely cut down or damaged, each hemisphere can work independently. Explain with the help of cases. Describe the difference in functions of the left and right hemispheres, and identify the disorders that can arise from damage to each.