24027173

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Psychology Model I

COMPLEMENTARY COURSE - PY3CMT08 - NEUROPHYSIOLOGY OF BEHAVIOUR I

2017 Admission Onwards

31C3B6EE

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define the term Neuroscience.

2. Mention the significance of Sodium Pottasium Pump in neurons.

3. Mention the significance of Serotonin in behaviour.

4. Distinguish between grey matter and white matter.

5. Define the term Basal ganglia.

6. Define the cerebellum and its role.

7. Mention the significance of brain stem.

8. Mention the role of Parasympathetic nervous system.

9. What is Korsakoff's syndrome?

10. What is Wernicke's aphasia?

11. Which are the lobes of cerebral cortex ?

12. Define sleep.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Distinguish between neuroglia and microglia.

14. Distinguish between unipolar, bipolar and multipolar neurons.

15. Describe the Mesencephalon and its role in behaviour.

16. Explain the function of occipital lobe of cortex.

17. Describe the Basal ganglia and its role in behaviour.

18. What are the functions of autonomic nervous system?

19. Describe the structural details of the neocortical layers.

20. Describe the association areas of the cerebral cortex.

21. Explain the differences of left and right hemispheres and handedness.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Describe the generation and conduction of action potential in a neuron. Add a note on EPSP and IPSP.

23. Explain the structure and function of the hypothalamus and its role in the behaviour of man.

24. Describe the Autonomic Nervous system. The role of Sympathetic and Parasympathetic Nervous system on the behaviour of man.

25. Write an essay on the evaluation of The Wernicke-Geschwind Model through clinical trials. Mention their inferences.

(2×15=30)