B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2018

Third Semester

B.Sc Psychology Model I

COMPLEMENTARY COURSE - PY3CMT08 - NEUROPHYSIOLOGY OF BEHAVIOUR I

2017 Admission Onwards

C7741242

Maximum Marks: 80
Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **2** mark.

1. What is Axoplasm?

2. What are afferent neurons?

3. What are Biogenic amines?

4. Mention the role of Cranial and Spinal nerves.

5. Define the term Basal ganglia.

6. Mention the role of Substantia nigra.

7. Define the role of hypothalamus in behaviour..

8. Define sympathetic nervous system.

9. Mention the various parts of the neocortex.

10. What is Hemispherical Laterization?
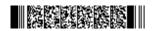
11. What is Wernicke's aphasia?

12. Define sleep.
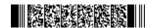
(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Describe the ontogenic explanation of behaviour.

14. Explain how nerve impulses are transmitted at the neuro-muscular junction?

15. Explain a spinal reflex with an example.

16. Describe the structure of medulla oblongata mention its significance in behaviour.

17. Describe the limbic system and its significance in behaviour.

18. Distinguish between sympathetic and parasympathetic autonomous nervous system

19. Explain the functional asymmetry in the capabilities of the right and left hemispheres in the perception of language and its learning.

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

21. Explain the role of cortex in learning.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain the Sodium pottasium pump, its functional role and significance.

23. Explain cerebrum and its associated lobes with a note on its functional roles.

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

25. Explain the surgical tests to prove the cerebral lateralization of function.

(2×15=30)