

TB213915V

Reg. No :

Name :

B. Sc. DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022
(2021 Admissions Regular,2020 Admissions Supplementary/Improvement,2019,2018 & 2017 Admissions Supplementary)
SEMESTER III - COMPLEMENTARY COURSE 1 (PSYCHOLOGY)
PY3CMT08 - NEUROPHYSIOLOGY OF BEHAVIOUR - I

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Define Depolarization?
2. Define chemical synapse.
3. Differentiate between sensory neuron and motor neuron?
4. Briefly explain myelencephalon?
5. Explain the importance and functions of brain stem?
6. Explain how the spinal cord works and write down how spinal cord damage affects different parts the body?
7. Write a short note on Diencephalon?
8. What happens if the sympathetic nervous system is damaged?
9. Define Sympathetic Chain Ganglia?
10. What is the main function of the parasympathetic division of the autonomic nervous system?
11. List out any four functions and characteristics of the left brain?
12. List out the six Neocortex layers?

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. How does depolarisation and repolarization occur at a neuronal level?
14. Explain the types of neuron based on function.
15. Write a short note on Cerebral cortex - its functions and lobes?
16. Pineal Gland plays an important role in regulating sleep patterns. Explain how ?
17. Write a short note on neurotransmitters present in the sympathetic nervous system?
18. Write a short note on disorders of Autonomic Nervous System?
19. What function does the left side of the brain control?
20. Write a short note on Neocortex?
21. Describe the basic features of Neocortex along with its functions?

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain the structure of the Sodium Potassium Pump? How does the Sodium Potassium Pump contribute to membrane potential?
23. Draw a labelled diagram of reflex arc and explain reflex action with an example

24. Explain the working mode of sympathetic nervous system along with the releasing of neurotransmitters with a suitable example?
25. How injuries on left and right side of the brain impacts daily life?