

Reg. No

Name

21U341

B. Sc. DEGREE END SEMESTER EXAMINATION - OCT. / NOV. 2021
SEMESTER 3 : COMPLEMENTARY COURSE FOR B Sc PSYCHOLOGY
COURSE : 19U3CPBHS3 : NEUROPHYSIOLOGY OF BEHAVIOUR I PAPER 3
(For Regular - 2020 Admission)

Time : Three Hours

Max. Marks: 75

PART A

Answer all (1 mark each)

1. Name the white fatty substance covering the axon.
2. Name the type of neurons found in the retina of the eye, inner ear, and the olfactory area of the brain.
3. Name the Neuropeptide that has a role in regulating blood pressure in the brain.
4. Name the most superficial meninges layer.
5. What is a tumour that develops within the spinal cord called?
6. Name the condition which involves the narrowing of the space inside the spine which can put pressure on the spinal cord and the nerves within the spine.
7. How many pairs of Sacral Nerves are there in the human Nervous System?
8. The parasympathetic nervous system is most active during times of high emotion. True or False?
9. _____ area is the center for language comprehension.
10. Name the innermost layer of the neocortex that directly overlies the subcortical white matter.

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. How does the resting membrane potential change to action potential?
12. Write a short note on 5-hydroxytryptamine.
13. What is decremental conduction?
14. Write a short note on the Vestibulocochlear Nerve.
15. Why is Ptosis or drooping of the upper eyelid a possible effect of Midbrain impairment?
16. How does Agraphia differ from Alexia? Explain.
17. What are mixed cranial nerves?
18. What are Chemoreceptors? Give examples.
19. Write a note on the Molecular layer of the neocortex.
20. Differentiate between sensory aprosodia and motor aprosodia.

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. Write a brief note on the structural and functional classification of neurons.
22. Write a short essay on Acetylcholine and its functions.
23. Write a short note on the disorders caused by Parietal Lobe lesions.
24. Differentiate between Cerebrum and Cerebellum.

25. Briefly explain the Somatic Nervous System.
26. Write a note on the Linguistic Capabilities of the Right Hemisphere.
27. Is there any linkage to hemispheric assymetry in certain types of stuttering? Give reasons for your answer.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Write an essay on the neurotransmission of impulses.
29. Write an essay on the major divisions of the adult human brain.
30. Differentiate between the Sympathetic and Parasympathetic Nervous System.
31. Write an essay on the Surgical studies and Human studies of hemispherical assymetry and isolation.

(12 x 2 = 24)