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N – 4085

Reg. No. :

Name :

First Semester B.Sc. Degree Examination, June 2022

First Degree Programme under CBCSS

Zoology

Complementary Course for Psychology

ZO 1131.2 : BRAIN AND BEHAVIOUR

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** the questions.(In one word sentences).

1. What are meninges?
2. What are adrenergic neurons?
3. What is node of Ranvier?
4. Define synaptic knob.
5. What are Nissl bodies?
6. What is corpus striatum?
7. What is rCBF?
8. Comment on vagus nerve.
9. What is Broca's area?
10. What is Pons Varoli?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** of the following questions (Not to exceed one paragraph).

11. Briefly describe the structure of a neuron.
12. What are glial cells?
13. What is saltatory propagation?
14. Comment on synaptic delay.
15. Briefly describe the all or none principle.
16. Comment on NMR.
17. What is limbic cortex?
18. What are the functions of hippocampus?
19. Comment on Cerebellum.
20. What are oligodendrocytes?
21. Give a brief account on cerebral lateralization.
22. Comment on Arcuate fasciculus.
23. Differentiate between bipolar and multipolar neurons.
24. What is blood brain barrier?
25. What is Psychotic behaviour?
26. What are the functions of basal ganglia?

(8 × 2 = 16 Marks)

III. Answer **any six** of the following questions (Not to exceed **120** words).

27. What are the major types of neurons?
28. Briefly describe the nerve impulse generation and transmission.
29. Give an account on PET Scan.
30. Comment on MRI and functional MRI.
31. Explain the neuroplasticity of the brain.
32. Give the definition and substantiate the significance of neuroplasticity.
33. Briefly explain the functions of thalamus and hypothalamus.
34. Briefly describe autonomic nervous system.
35. Comment on the different types of aphasia.
36. What is cerebral blood flow? What is its impact?
37. Comment on sensory and motor processing.
38. Briefly describe the various types of brain waves.

(6 × 4 = 24 Marks)

IV. Answer **any two** of the following questions.

39. Write an essay on neurotransmitters.
40. Give an account on causes, symptoms and types of brain lesions.

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41. Describe the speech and language areas of the brain.
 42. Elaborate the functions of specific cortical areas.
 43. Give an account on spinal cord, its functions and reflexes.
 44. Write an essay on brain damage and language.

(2 × 15 = 30 Marks)

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