

Reg. No. :

Name :

First Semester B.Sc. Degree Examination, November 2019

First Degree Programme Under CBCSS

Complementary Course for Psychology

ZO 1131.2 : BRAIN AND BEHAVIOUR

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

Instructions : Answer ALL questions.

I. Fill in the blanks. (Each carries 1 mark).

1. The type of nerve cell in the retina of eye _____
2. PET stands for _____
3. The sudden reversal of polarity across a nerve membrane is _____
4. The neurotransmitter associated with Schizophrenia is _____
5. The primary visual cortex is situated in _____ lobe of the brain.

(5 × 1 = 5 Marks)

II. Define the following. (Each questions carries 1 mark)..

6. Nodes of Ranvier
7. NMR
8. Saltatory conduction
9. Ventricles
10. Visual cortex.

(5 × 1 = 5 Marks)

P.T.O.

III. Answer any **EIGHT** of the following. Each carries **2** marks. The answer should not exceed one paragraph.

11. Hyperpolarization
12. Synaptic cleft
13. MRI
14. Serotonin
15. Astrocytes
16. Electrical synapse
17. Lateralization
18. Cerebrospinal fluid
19. Conduction aphasia
20. Corpus callosum
21. Sensory and motor neuron
22. Basal ganglia.

(8 × 2 = 16 Marks)

IV. Answer any **SIX** of the following. Each carries **4** marks. The answer should not exceed 120 words.

23. Synaptic delay.
24. Types of neurotransmitters.
25. Functions of hippocampus.

26. Non neuronal cells in the central nervous system.

27. Features of spinal cord reflexes.

28. Types of brain waves.

29. Broca's area

30. Right hemisphere of human brain.

31. Wernicke's Aphasia.

(6 × 4 = 24 Marks)

IV. Write an essay on any **TWO** of the following.

32. Describe the generation and transmission of a nerve impulse.

33. Give a detailed account on any five techniques in physiological psychology.

34. Elaborate the structure of brain.

35. Write an essay on the structure and functions of cerebral cortex.

(2 × 15 = 30 Marks)