

**Avinashilingam Institute for Home Science and Higher Education for Women,
(Deemed to be University), Coimbatore – 641 043**

**Master's Degree Examination – November 2018
Semester – I**

Class : I PG

Time: 3 Hours

Major: Applied Psychology

Max. Marks: 60

17MAPC02 Physiology Of Behaviour

PART – A

(10 X ½ = 5)

Choose the correct answer

1. The cell body of a neuron which contains the nucleus is known as _____.
a. axon b. dendrite c. soma d. synapse
2. The space between the presynaptic membrane and postsynaptic membrane is called as _____.
a. synaptic vesicle b. synaptic cleft
c. binding site d. postsynaptic membrane
3. Identify the neuron in the retina that interconnects adjacent ganglion cells and the inner processes of the bipolar cells.
a. horizontal cell b. ganglion cell
c. bipolar cell d. amacrine cell
4. Inability to perceive movement is termed as _____.
a. akinetopsia b. achromatopsia
c. prosopagnosia d. alexia
5. Which of the following is not a neurotransmitter?
a. acetylcholine b. cyclic AMP c. noradrenaline d. dopamine
6. Dividing the brain into two symmetrical halves is termed as _____.
a. medial b. sagittal section
c. contralateral d. midsagittal plane
7. People don't openly display this particular emotion in public is _____.
a. hate b. anger c. affection d. greeting
8. The spinal root that contains afferent sensory fibers is called _____.
a. dorsal root b. ventral root c. caudaequina d. caudal block
9. Identify the drug that blocks opiate receptors.
a. Enkephalin b. Strychnine c. Naltrexone d. Glycine
10. A scanning electron microscope provides _____ magnification compared to a standard transmission electron microscope.
a. high b. similar c. less d. no

PART – B

(5 X 4 = 20)

Answer All Questions

Answer should not exceed 200 words or one page

11. a) Explain briefly about GABA
(Or)
11. b) Explain about the gustatory pathway
12. a) Discuss about the activation of receptors.
(Or)
12. b) Draw and explain the principle parts of multipolar neuron.
13. a) Discuss about mesencephalon.
(Or)
13. b). Write about autoreceptors
14. a) Discuss on the principle characteristics of REM and slow-wave-sleep.
(Or)
14. b) Explain briefly about PET
15. a) Describe the ways of perception of pitch.
(Or)
15. b) Examine the ways of measuring electrical potentials of axons.

PART – C

(5 X 7 = 35)

Answer All Questions

Answer should not exceed 600 words or three page

16. a) Analyse and explain about the physiological roots of psychology.
(Or)
16. b) Describe about the development of central nervous system with an overview of brain development.
17. a) Explain about the anatomy of the ear with diagrammatic explanation.
(Or)
17. b) Write in detail about the various disorders of sleep.
18. a) Elaborately explain about the peripheral nervous system.
(Or)
18. b) Explain about the role of various neurotransmitters.
19. a) Discuss in detail about structure and functions of cells of the nervous system.
(Or)
19. b) Describe the structure of synapse and the termination and effects of postsynaptic potentials.
20. a) Discuss in detail about the communication within a neuron.
(Or)
20. b) Explain and elaborate about neural control of slow- wave sleep and REM sleep.