

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)

B.Sc(NEURO SCIENCE TECHNOLOGY) DEGREE EXAMINATIONS - September 2021

Second Year
APPLIED NEURO SCIENCE - I

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :**(10 x 1 = 10)**

1. Areas involved in speech (motor speech area)
a) 4 b) 3,1,2 c) 44,45 d) 17
2. Cranial nerve responsible for smell
a) Vestibular N b) Trochlear N
c) oculomotor N d) olfactory N
3. The total number of cranial nerves present
a) 12 b) 11 c) 10 d) 7
4. Brainstem that consists of
a) cerebellum b) hypothalamus
c) pons and medulla oblongata d) thalamus
5. The covering of the neuron
a) skin b) myelin sheath c) myosin d) axon
6. Broca's area is located in
a) parietal lobe b) frontal lobe
c) temporal lobe d) occipital lobe
7. Hippocampal amygdala is related to
a) memory for recent events b) movements
c) emotional behavior d) none of the above
8. Brodmann's number given to audiotory area is
a) 41,42 b) 44,45 c) 3,1,2 d) 18,19
9. Which of following region of cerebellum is concerned with planning and programming muscular activities
a) intermediate zone b) vermis
c) lateral zone d) floccunodular zone
10. Which of the following structures is related to auditory pathway
a) lateral geniculate body b) trapezoid body
c) medial lemniscus d) spinal lemniscus

II. Write Short Answers on any FIVE of the following:

(5 x 5 = 25)

11. Draw and label cross section of spinal cord
12. Muscle stretch reflex
13. Enumerate few neurotransmitters
14. Motor unit
15. Lumbar plexus
16. Flow of CSF (flowchart, functions, amount of secretion)
17. Ventricles (fourth ventricles)

III. Write Short Essays on any TWO of the following:

(2 x 10 = 20)

18. Explain Brachial plexus with appropriate diagrams
19. Nerves supplying upper limbs and lowerlimbs
20. Action potential (membrane potential)
21. Autonomic nervous system

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Explain the lobes, areas, function of cerebrum
23. Basal ganglia and spinalcord

(SI.No.M21262)

