

24U222

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Name :

Reg. No :

SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2025

(FYUGP)

CC24UZOO2MN102 - NEUROPHYSIOLOGY

(Zoology - Minor Course)

(2024 Admission - Regular)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1. Define corpus striatum. [Level:1] [CO3]
2. Discuss the functions of neo-cerebellum. [Level:2] [CO3]
3. Discuss the functions of basal ganglia. [Level:2] [CO3]
4. Discuss the structure of cerebellum. [Level:2] [CO3]
5. Discuss the structure of cerebral cortex. [Level:2] [CO4]
6. Discuss the theories of sleep. [Level:2] [CO4]
7. Define PET Scanning. [Level:1] [CO4]
8. Discuss the concept of dominant hemisphere. [Level:2] [CO4]
9. Discuss the functions of brain in communication - motor aspect. [Level:2] [CO4]
10. Define Wernicke's area and its functions. [Level:1] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Discuss presynaptic neuron and post synaptic neuron with a suitable diagram. [Level:2] [CO1]
12. Explain neurilemma and its functions. [Level:2] [CO1]
13. Discuss the non-nervous tissue. [Level:2] [CO1]
14. Explain the autonomic nervous system. [Level:2] [CO1]
15. Discuss the resting membrane potential and action potential. [Level:2] [CO1]
16. Explain forebrain with a suitable diagram. [Level:2] [CO2]

17. Explain monosynaptic reflex and polysynaptic reflex.

[Level:2] [CO2]

18. Explain the sulcus, fissure and gyrus of human brain.

[Level:2] [CO2]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

19. Describe the organization of the spinal cord.

[Level:2] [CO2]

20. Describe the structure of spinal cord.

[Level:2] [CO2]

(1 × 10 = 10 Marks)
