

25U221

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Name :

Reg. No :

SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2026

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UZOO2MN102 - NEUROPHYSIOLOGY

(Zoology - Minor Course)

(2024 Admission onwards)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

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

1. Discuss the functions of spino-cerebellum. [Level:2] [CO3]
2. Define corpus striatum. [Level:1] [CO3]
3. Discuss how basal ganglia control the voluntary motor activity. [Level:2] [CO3]
4. Discuss cerebellar hemispheres. [Level:2] [CO3]
5. Discuss the functions of brain in communication - sensory aspect. [Level:2] [CO4]
6. Define frontal lobe and its functions. [Level:1] [CO4]
7. Define prosopagnosia. [Level:1] [CO4]
8. Discuss the concept of dominant hemisphere. [Level:2] [CO4]
9. Define EEG. [Level:1] [CO4]
10. Define sleep. [Level:1] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

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

11. Discuss the role of calcium ions in post synaptic transmission. [Level:2] [CO1]
12. Explain the nerve impulse. [Level:2] [CO1]
13. Explain the peripheral nervous system. [Level:2] [CO1]
14. Explain the organization of nerve. [Level:2] [CO1]

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| 15. Explain peripheral neuroglial cells. | [Level:2] [CO1] |
| 16. Discuss the descending tracts of spinal cord. | [Level:2] [CO2] |
| 17. Explain forebrain with a suitable diagram. | [Level:2] [CO2] |
| 18. Discuss the white matter of spinal cord with a suitable diagram. | [Level:2] [CO2] |

(Ceiling: 36 Marks)

Part C (Essay questions)

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

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| 19. Describe reflex action with examples. | [Level:2] [CO2] |
| 20. Describe the structure of the human brain. | [Level:2] [CO2] |

(1 × 10 = 10 Marks)
