

QP CODE: D2BZL2502	Reg. No :
	Name :
SECOND SEMESTER FYUGP EXAMINATION, APRIL 2026 (Regular/Improvement/Supplementary) Discipline Specific Core (DSC) Courses - Minor ZOO2MN102 : Neurophysiology (Credits: 4)	
Time: 2 Hours	Maximum Marks: 70
Section A. Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)	
1. Write two examples of monoamines and gasotransmitters.	BL1 CO1
2. What is the main function of the thalamus in the forebrain?	BL1 CO2
3. Briefly explain the Cerebellar role in motor control.	BL1 CO3
4. Comment on delta brain waves.	BL1 CO4
5. What is the classification of neurons based on the functions?	BL2 CO1
6. Describe the role of the dorsal and ventral roots in the spinal cord.	BL1 CO2
7. Why is the cerebellum considered essential for the smooth execution of skilled movements?	BL2 CO3
8. What is the role of the fusiform gyrus in face recognition?	BL1 CO4
9. How does the blood -CSF barrier differ from blood brain barrier?	BL2 CO1
10. What would happen if the crossed extension reflex did not function properly?	BL2 CO2
Section B. Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)	
11. Explain how the PNS is involved in the "fight or flight" response during stress.	BL2 CO1
12. Describe the events in the development of the muscle tone.	BL2 CO2
13. Explain the topographical representation of the body in the vermis and intermediate zones of the Cerebellum.	BL2 CO3
14. Explain positron emission tomography (PET).	BL2 CO4
15. Discuss the role of calcium ions in the process of synaptic transmission.	BL2 CO1
16. Enumerate the components of a reflex arc.	BL2 CO2
17. Explain the role of basal ganglia in motivation.	BL2 CO3
18. How do the parieto-occipito-temporal association areas contribute to reading and writing?	BL2 CO4
Section C. Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)	
19. Explain the structure of the basal ganglia. Discuss the role of each part in motor control.	BL2 CO3
20. Elucidate the sensory and motor aspects of communication.	BL2 CO4
CO : Course Outcome BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)	