

QP CODE: D2BZL2402	(Pages: 2)	Reg. No : .....
		Name : .....
SECOND SEMESTER FYUGP EXAMINATION, APRIL 2025		
MINOR COURSE		
ZOO2MN102 : Neurophysiology		
(Credits: 4)		
Time: 2 Hours	Maximum Marks: 70	
Section A		
Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)		
1. What are the differences between the central nervous system (CNS) and the peripheral nervous system (PNS)?	BL1	CO1
2. Define the terms muscle tone and posture.	BL1	CO2
3. What is the function of the vermis of the Cerebellum?	BL1	CO3
4. What is conduction aphasia?	BL1	CO4
5. How do neurotransmitters influence the membrane potential of the postsynaptic neuron?	BL2	CO1
6. How does the Golgi tendon organ influence the relaxation of a muscle after it has generated excessive force?	BL2	CO2
7. What are the different functional areas of the cerebellum?	BL1	CO3
8. What is Prosopagnosia?	BL1	CO4
9. What is the resting membrane potential, and why is it important for the generation of nerve impulses?	BL1	CO1
10. How does the hypothalamus contribute to the regulation of homeostasis?	BL2	CO2
Section B		
Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)		
11. Explain the characteristics and functions of the cerebrospinal fluid (CSF).	BL2	CO1
(PTO)		

12.	Explain how damage to different regions of the spinal cord (e.g., cervical) can lead to varying levels of paralysis.	BL3	CO2
13.	How does the cerebellum contribute to motor control, coordination, and balance?	BL2	CO3
14.	Write a note on computed tomography (CT).	BL2	CO4
15.	Explain the structure of a nerve.	BL2	CO1
16.	Explain the withdrawal reflex.	BL2	CO2
17.	Explain the role of dopamine in the basal ganglia and its impact on motor and cognitive functions.	BL2	CO3
18.	Explain the NREM sleep.	BL2	CO4
<b>Section C</b>			
<b>Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)</b>			
19.	Elucidate the roles of the direct and indirect pathways of basal ganglia in regulating movement.	BL2	CO3
20.	Explain the role of the parieto-occipito-temporal association areas in language comprehension and spatial awareness.	BL2	CO4
<b>CO : Course Outcome</b>			
<b>BL : Bloom's Taxonomy Levels</b> (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)			