GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Biological and Life sciences

Master of Science in Zoology
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem II - P1PN201T - Comparative Physiology

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Discuss the primary functions of the testes in different animal species	K1	(2)
2)	List the primary nitrogenous waste products commonly excreted by animals.	K2	(4)
3)	Explain the role of dendrites and axons in neuronal function. How do they differ in structure and function?	K2	(6)
4)	Illustrate the role of lymphatic system in animals	K3	(9)
5)	Differentiate between unipolar, bipolar, and multipolar neurons	K3	(9)
6)	compare the respiratory pigments found in invertebrates, considering their structural diversity and functional adaptations to diverse ecological niches.	K5	(10)
7)	Point out examples of low-temperature adaptations of some ectotherms and some endotherms.	K4	(12)
8)	Examine the feedback mechanisms that the hypothalamus employs to maintain homeostasis in response to changes in external and internal temperatures.	K5	(15)
9)	Summarize the functions of histamine as a neurotransmitter and its involvement in allergic reactions and inflammatory responses.	K5	(15)
10)	Compile the contribution of postsynaptic receptors to drug actions and therapeutic interventions.	K6	(18)