

MSc Sem.-1 Examination

404

Zoology

Time : 2-30 Hours]

February-2025

[Max. Marks : 70

Q-I	1	Give varied perspectives of phylogenetic inference.	(07)
	2	Briefly explain the aims, tasks, stages and importance of taxonomy.	(07)
	OR		OR
	1	Explain characters and character states. Add a note on morphological characters used in taxonomy.	(07)
	2	Give a detailed account of evolutionary and behavioural taxonomy.	(07)
Q-II	1	Give structural and functional aspects of respiration in invertebrates.	(07)
	2	Explain amoeboid, flagellary and ciliary movements in invertebrates.	(07)
	OR		OR
	1	With suitable examples explain feeding and digestion in protozoa and lower metazoa.	(07)
	2	Briefly give an account of patterns of reproduction, larval forms and metamorphosis in invertebrates.	(07)
Q-III	1	Explain in detail: Exotic animals and their effects.	(07)
	2	Write a note: Distribution of zoogeography regions by Russel Wallace.	(07)
	OR		OR
	1	What is extinction of species? Briefly explain the causes and different types of extinction.	(07)
	2	Write a Note: Anthropological pressure on zoogeography.	(07)
Q-IV	1	Give a comparative account of the excretory system in amphibians and mammals.	(07)
	2	Give a comparative account of aortic arches in vertebrates.	(07)
	OR		OR
	1	Give a comparative account of the digestive system in reptiles and aves.	(07)
	2	Explain the different modes of locomotion in aquatic system.	(07)
Q-V	Answer any SEVEN out of TWELVE.		(14)
	1	What are plesiomorphy and apomorphy?	02
	2	What are RTU and OTU?	02
	3	What is DNA barcode?	02
	4	What are FMRamide and LWamide?	02
	5	What is pericapsular organ?	02
	6	What are osmoconformers and osmoregulators?	02
	7	What is biogeographic dispersal?	02
	8	Which are the intrinsic factors affecting animal distribution?	02
	9	What is the role of wildlife corridors in conservation?	02
	10	Differentiate between open and closed circulatory system with examples.	02
	11	Explain Archinephros.	02
	12	Explain quadrupedalism and saltation with appropriate examples.	02