

MSc Sem.-2 Examination

409

Zoology

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

Q-I	1	Write a detailed note on environmental degradation and pollution.	(14)
	2	What is EIA? Describe EIA in detail mentioning its timeline and process.	
	OR		
	1	What is meant by succession? Write a note on Xerarch succession?	
	2	Define biomes. Describe the Indian biome types in detail with examples.	
Q-II	1	Give a concise overview of how different sampling methods are used to estimate population size.	(14)
	2	Define parasitism and illustrate it with appropriate examples.	
	OR		
	1	Explain Gause's principle of exclusion and its modification with appropriate examples.	
	2	Define population growth and provide a brief explanation of its different types.	
Q-III	1	What are shapefiles and how are they used in GIS?	(14)
	2	Provide a concise overview of coordinate reference systems.	
	OR		
	1	Define GIS and elaborate on its key components.	
	2	Explain the concepts of vector and raster data in GIS.	
Q-IV	1	Describe the tool use in great apes.	(14)
	2	Explain learning in mammals with suitable examples.	
	OR		
	1	Write a short note on the uses of various navigation systems during migration in birds.	
	2	Write a short note on the proximate and distal value of behavior.	
Q-V	Answer any SEVEN out of TWELVE .		(14)
	1	Name the factors that influence a particular biome.	02
	2	What are the types of bioremediation?	02
	3	What are the sources of solid waste?	02
	4	Give the names of two categories of factors that contribute to the determination of clutch size in animals.	02
	5	List the various types of traps used to measure relative density.	02
	6	Describe the term 'Epizoans' and provide an example of it.	02
	7	State the contribution of "Roger Tomlinson".	02
	8	Give the full form of "ESRI".	02
	9	Define aerial imagery in remote sensing.	02
	10	Give two examples of learning in birds.	02
	11	Give extreme examples of parental care in reptiles.	02
	12	Name the bird that performs the longest non-stop flight and the bird that performs the fastest migration.	02