Reg. No	Name	25P116
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M.Sc. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2025 SEMESTER 1 : ZOOLOGY

COURSE: 24P1ZOOT01: ANIMAL DIVERSITY: PHYLOGENETIC AND TAXONOMIC APPROACHES

(For Regular - 2025 Admission and Improvement/ Supplementary 2024 Admission)

Time : Three Hours Max. Weights: 30

DΛ	рΤ	
PA	ĸп	А

	PARIA			
	Answer any	8 questions	Weight: 1	
1.	Explain pairwise identity.			(An, CO 8)
2.	List out the evolutionary significance of Onycho	phora		(An)
3.	Comment on evolutionary approach in taxonom	ny.		(R, CO 6)
4.	Comment on IUCN and its role.			(U)
5.	Explain with example tissue grade of organization	on.		(U)
6.	List out the features of order chiroptera giving s	uitable examples.		(A)
7.	Comment on cephalization.			(U)
8.	What is Macrotaxonomy?			(U, CO 1)
9.	Mesozoic era is considered as the age of reptile	s. Examine		(An, CO 2)
10.	Differentiate between Micro and Macro Taxono	my.		(An) (1 x 8 = 8)
	PART B			
	Answer any 6 q	uestions	M/-1-b 2	
			Weights: 2	
11.	What is endemism. Explain endemism in Kerala			(An)
12.	Specify the importance of biomolecules in mole			(An, CO 7)
13.	Briefly explain different types of body symmetry			(An, CO 6)
14.	A good taxonomist never suppress any relevant Examine the statement	details on a researc	h work.	(E, CO 3)
15.	Enlist the contributions of Salim Ali and Sunder Fauna.	Lal Hora to the stud	y of Indian	(An, CO 7)
16.	Write briefly on the adaptations of nematodes a	as parasites.		(An)
17.	Briefly explain the origin and adaptive radiation	of reptiles.		(U)
18.	Explain burgess shale. Add notes on its relevance	e in fossil history		(A, CO 8) (2 x 6 = 12)
	PART C	•		
	Answer any 2	2 questions	Weights: 5	
19.	Elaborate on five differnt phyla coming under p	seudocoelomata.		(An)
20.	Adaptive radiation is a subset of the theory of d Comment	escent with modific	ation.	(An)
21.	Outline the format of a new description in the justificance of type study in taxonomy	ournal Zootaxa. Mer	ntion the	(E, CO 5)
22.	DNA barcoding is an accurate ecological approa ecological research. Justify the statement	ch to identify specie	es and	(An, CO 3) (5 x 2 = 10)

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OBE: Questions to Course Outcome Mapping

СО	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Understand the basic concepts of systematics and taxonomyPO1, PO4, PO5 PSO3, PSO4	U	8	1
CO 2	Discuss the procedures in taxonomy and ethics in publications PO1, PO3, PO4 PSO3, PSO4	Α	9	1
CO 3	Appreciate the contributions made by scientists and organisations towards conservation of animal diversity	An	14, 22	7
CO 5	Examine the diversity of Palaeofauna	An	21	5
CO 6	Discuss the animal architecture	An	3, 13	3
CO 7	Compare the invertebrate fauna by their characteristics	An	12, 15	4
CO 8	Compare the vertebrate animals by their characteristics	An	1, 18	3

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;

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