JL – 39/14 Zoology Paper – I

Time: 3 hours

Full Marks: 200

The figures in the right-hand margin indicate marks.

Answer five questions selecting

one question from each Unit.

UNIT-1

1.	(a)	Elucidate the parasitic adapt	tations w	rith	
		suitable examples.		20	
	(b)	Explain evolutionary significar	ice of lar	val	
		forms in echinoderms.		20	
2.	Write short notes on the following:				
	(a)	Protozoan parasites of man		10	
	(b)	Reproduction in sponges		10	
	(c)	Locomotory organs in molluscs	nieloxii	10	
	(d)	Excretion in aquatic insects		10	
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UNIT - II

- (a) Explain migration in fishes and its biological significance.
 - (b) Give a detailed account on adaptive radiation in mammals.

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- 4. (a) Write an essay on poisonous and nonpoisonous snakes in India. 20
 - (b) Discuss the adaptive features for flight in birds.

UNIT-III

- 5. Explain the types of environmental pollutants, their sources and impact on biological systems. 40
- 6. (a) Give an account on wild life of India and their conservation.
 - (b) What are Tests of Significance? Explain their methods and applications in Biology. 20

(b) Reproductivi - TINUSES

 Explain various distinct patterns of evolution with suitable examples.

8.	Write short notes on the following:			
	(a)	Natural selection and its important evolution	ce in	
	(b)	Isolating mechanisms in relation to ori	gin of	
		species	10	
	(c)	Hardy-Weinberg principle and its relevance		
		to population genetics	10	
	(d)	Biological clock and circadian rhythm	10	
		UNIT - V		
9.	(a)	Explain the process of vermicomposting and		
		its applications.	20	
	(b)	Give an account on transgenic animal	s and	
		their potential uses.	20	
10.	(a) What are the methods of induced bree			
		in fishes ? Add a note on their applicat	ions.	
			20	
	(b)	Describe the structure of bacteria	and	
		bacteriophage with neatly labelled diagr	rams.	
			20	
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