Your Roll No.

B.Sc. Prog. / II

AS

LS-202: BIODIVERSITY - II (ANIMALS)

Time: 3 hours

Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

There are two Sections, Section A and Section B, which are to be answered on separate answer-books.

Draw labelled diagrams wherever necessary.

Section A

Marks: 37

Answer three questions in all, including Q. No. 1, which is compulsory.

- 1. (a) Define the following terms:
 - (i) Polymorphism
 - (ii) Metamerisn.

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- (b) Differentiate between:
 - (i) Holophyti and Holozoic Nutrition
 - (ii) Facultatis and Obligate Parasites
 - (iii) Enterocclus and Schizocoelus Coelom
 - (iv) Stomodium and Proctodaeum.

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(c)	Give the scientific names of the following:	
	(i) Portuguese man-of-war	
	(ii) Dead man's finger	
	(iii) Sea mouse	
	(iv) Elephant's tusk shell.	ļ
(d)	Give the location and function of the following:	
	(i) Parapodia	
	(ii) Radula	
	(iii) Ambulacral Groove.	ţ
	What are coral reefs? Explain different types of coral reefs. Define metagenesis. Explain the process with the	3
` .	help of an example.	
3. (a	Define coelom. Briefly explain coelom in Poly chaeta, Oligochaeta and Hiradinea.	
(b	Give a brief account of water vascular system in Echinodermata.	
	rite short notes on any two of the following:	
(a) Parasitic adaptation in Ascari	
(t) Vision in arthropoda	

(c) Process of conjugation in *Paramecium* and significance of the process.

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SECTION B Marks: 38

Attempt three questions in all, including Q. No. 5, which is compulsory.

- 5. (a) Define: 10 July 1 ه 14. از در دون (i) Stenohaline (ii) Limnodromous (iii) Retrogressive metamorphosis (iv) Osmoregulation. 4 (b) Distinguish between the following: (i) Pronz Horn and Hollow Horn (ii) Chordata and Vertebrata (iii) Syrinx and Larynx. 6 (c) Classify the following: (i) Bufo (ii) Catla (iii) Hemidactylus (iv) Balanoglossus. 4
- 6. (a) Discuss the role of various physical and biological factors in Migration of fishes.

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	(b)	Describe migratory movements in A	Anguilla.	12		
7.	(a) Discuss terrestrial adaptations in Reptiles.					
	(b)	Describe various derivatives of mammals.	integument	in 6,6		
		•	t			
8.	Write short notes on any two of the following:					
	(i)	Flight adaptations in Birds	' 651			
((ii)	Accessory breathing organs in fisher	es			
	(iii)	Parental care in amphibia.		6,6		