This question paper contains 4 printed pages]

Your Roll No

5179

B.Sc. Prog. / II

J

L.S.-202 – BIODIVERSITY-II (ANIMALS)

(NC - Admission of 2008 onwards)

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 to be answered on separate answer-books

Draw labelled diagrams wherever necessary

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

SECTION - A

- 1 (a) Define the following
 - (1) Baleen
 - (11) Carnassial tooth
 - (111) Interbranchial septum
 - (1V) Amnion

4

5179 1 P.T.O.

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	(b)	Differentiate between the following.
		(1) Holobranch & Hemibranch
		(11) Homodont & Heterodont
		(III) Swim bladder & air sac 6
	(c)	Classify the following
		(1) Amphioxus
		(11) Hemidactylus
		(111) Electric ray
		(iv) Bufo 4
2	Wha	t do you understand by Osmoregulation?
		an account of osmoregulatory mechanisms ted by fishes in varying salinity 12
3	-	ain respiration in amphibians Add a note on respiratory adaptations to amphibians mode fe.
4.	Wnt	e short notes on any two of the following:
	(1)	Integument in Mammals
	(11)	Flight adaptations in birds.
	(111)	Salient features & affinities in
	•	Hemichordates 6 + 6

SECTION - B (Nonchorda)

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

1	(a)	Differentiate between .	6
		(1) Protonephridia and metanephridia.	
		(ii) Nematocyst and Trichocyst	
		(111) Radiata and Bilateria	
	(b)	Define the following .	3
		(1) Cephalization	
		(11) Deuterostome	
		(111) Schizocoelom	
	(c)	Give the function of the following:	4
		(1) Ospharadium	
		(11) Aristotle's lantern	
		(111) Ommatadium	
		(iv) Acetabulum	
		•	
2.	(a)	Give an account of polymorphism in	
		Hydrozoa.	9
	(b)	Diagramatically show the structure of	
		flagella.	3

3

5179

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- Give an account of various types of larvae in echinoderms and their significance
- 4 Attempt any **two** of the following: 6+6
 - (1) Metamerism
 - (11) Conjugation in Paramecium
 - (111) Parasitic adaptations in platyhelminthes