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
 - (III) Interbranchial septum
 - (iv) Amnion

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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
		(i) Amphioxus
		(II) Hemidactylus
		(ui) Electric ray
		(iv) Bufo 4
2.	Wha	do you understand by Osmoregulation?
		an account of osmoregulatory mechanisms
	adap	ed by fishes in varying salimity 12
3	-	in respiration in amphibians. Add a note on
	of hi	espiratory adaptations to amphibians mode
	01 111	(X B)
4	Wnt	short notes on any two of the following
•	(1)	Integument in Mammals
	(11)	Flight adaptations in birds
	(m)	- Arm
	(111)	Hemichordates 6+6

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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	
		(III) 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) Ommatadıum	
		(iv) Acetabulum	
2.	(a)	Give an account of polymorphism in	_
		Hydrozoa	9
	(b)	Diagramatically show the structure of	
		flagella	1

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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
 - (i) Metamerism
 - (ii) Conjugation in Paramecium
 - (111) Parasitic adaptations in platyhelminthes.

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