5226

B. Sc. EXAMINATION

(For Batch 2011 & Onwards)

(Fourth Semester)

ZOOLOGY

First Paper

Life and Diversity of Chordates-II

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all. Q. No. 1 is compulsory. Select two questions each from Section A and Section B. Support your answers with well labelled diagrams and suitable examples wherever necessary.

- 1. Explain the following:
 - (a) / Aestivation
 - (b) Crus commune

- (c) Procoelous vertebra
- (d) Jacobson's organ
- (e) lethyosaurs
- (f) Bastard wing
- (g) Preen gland
- (h) Altricial bird
- (i) The codont dentition
- (j) Meibomian glands.

 $1 \times 10 = 10$

Section A

- 2. (a) Define Portal System. Explain different types of Portal Systems along with their significance in Frog. 4½
 - (b) Describe the structure of skin of Frog with the help of a well labelled diagram.
- 3. (a) Give a brief account of Excretory System of Frog. 41/2
 - (b) Give an account of Buccopharyngeal Respiration in Frog. 3

4.	(a)	Give an account of Brain of Hemidacylus			
	(b)	Differentiate between Poisonous and Non- poisonous Snakes. 2½			
5.	(n)	Enumerate any five unique features of class reptilia. 21/2			
	(h)	Write any <i>four</i> differences between sub- order Lacertilia and Ophidia. 2			
	(c)	Give the Scientific name and Systematic Position of the following:			
		(i) Flying Dragon 11/2			
		(ii) Monitor. 11/2			
Section B					
6.	6. Write short notes on the following:				
	(a)	Bird Migration 4½			
	(b),	Morphological Volant Adaptations in Birds. 3			
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7.	(a)	Describe the Arterial System of Pi	geon.	
		Write a short note on Syrinx of Pi	5	
			21/2	
8.	(a)	Give the name, origin, innervation		
		nature of I, IV and VI cranial nerv	es of	
		Fat.	41/2	
	(b)	Describe the structure of membra	anous	
		Labyrinth of Rat.	3	
9.	Drav	Draw well labelled diagram of the following:		
	(a)	Male Urinogenital System of Rat	41/2	
	(b)	V.S. Eye of Rat.	3	