#### 2014

(2nd Semester)

**ZOOLOGY** 

Paper: ZL-II

### ( Biology of Chordates and Comparative Anatomy )

Full Marks: 55

Time: 2 hours

( PART : B-DESCRIPTIVE )

( Marks: 35 )

The figures in the margin indicate full marks for the questions

 Classify protochordata up to sub-phyla and write the general characters of each sub-phylum.
 1+6=7

Or

Write an account of the post-embryonic development in Amphioxus.

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7

2. Give an outline classification of Pisces up to orders.

7

Or

Write the general characters of the class Reptilia.

3. Write an account of principle and mode of flight in birds.

4+3=7

Or

Outline the classification of Mammals up to orders giving one example each.

7

4. Write an account on dermal derivatives of integument.

7

Or

Discuss briefly the evolutionary modification of heart.

5. Write an account on the structure and composition of bone.

7

Or

Write notes on the following:

 $3\frac{1}{2}+3\frac{1}{2}=7$ 

- (a) Vertebrae
- (b) Cartilage

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(2nd Semester)

# ZOOLOGY Legransia (%)

Paper: ZL-II

## ( Biology of Chordates and Comparative Anatomy )

( PART : A—OBJECTIVE )

responsed of (Marks: 20) was resident (a)

The figures in the margin indicate full marks for the questions

### SECTION—A

( Marks: 5)

- Put a Tick (✓) mark against the correct answer in the brackets provided:
  - (a) The living agnathans are placed under two orders, viz.
    - (i) Monorhina and Diplorhina ( )
    - (ii) Arthrodiriformes and Antiarchiformes
    - (iii) Mixiniformes and Petromyzontiformes
    - (iv) Petromyzontia and Mixinoidea (1)

(b)		oncave and non-nucleated RBC is the racteristic feature of							
	(i)	aves ( )							
	(ii)	mammal ( )							
	(iii)	camel ( )							
	(ἱυ)	crocodile ( )							
(c)	Lim	bless amphibians belong to the order							
	(i)	Gymnophiona ( )							
	(ii)	Anura ( )							
	(iii)	Opisthocoela ( )							
	(iv)	Caudata ( )							
(d)	(d) Which of the following is known as the 'jack of all trades' of vertebrate?								
	<i>(i)</i>	Urinogenital system ( )							
	(ii)	Digestive system ( )							
	(iii)	Integumentary system ( )							
	(iυ)	Respiratory system ( )							

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(e)	Olecranon process is in connection with								
	(i)	femur (	)	1.00					
	(ii)	humerus	(	)		Only pro-			
	(iii)	ulna and ra	dius	,	`	o to s			
	(iv)	tibia and fib	oula	(	)				

A SECTION—B

( Marks: 15)

2. Write on the following:

3×5=15

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(a) Characteristic features of Protochordates

(b) Palacontological evidence to show that birds are reptilian descent

(c) Different types of fish scales

(d) Neoteny and paedogenesis with suitable example

bei Dentition in mammals

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