

72369

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Name.....57

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Zoology—Core Course

ZO 3B 05—ANIMAL DIVERSITY-CHORDATA—I

(2013 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* twelve questions. Each question carries $\frac{1}{4}$ weightage :

A. Objective type questions :

1 Which one of the following is a limbless amphibian :

- (a) Ichthyophis. (b) Rana.
(c) Salamander. (d) Hyla.

2 Which is known as Sting ray :

- (a) Latimeria. (b) Trygon.
(c) Scoliodon. (d) Lepidosiren.

3 Lepidosiren belongs to the order :

- (a) Crossopterygii. (b) Acanthopterygii.
(c) Dipnoi. (d) Anura.

4 Which one of the following is known as flying frog :

- (a) Rhacophorus. (b) Rana.
(c) Hyla. (d) Naja.

B. Name the following :—

5 Name the larval stage of *Amblystoma*.

6 Name the class of *Doliolum*.

7 Write an example for order Rhynchocephalia.

8 Write the order of *Chimaera*.

C. Fill in the blanks :

9 *Oikopleura* belongs to the subphylum _____.

10 Larval stage of *Petromyzon* is _____.

11 Venous heart is found in the super class _____.

12 The dorsal shell of *Chelone* is known as _____.

(12 × $\frac{1}{4}$ = 3 weightage)

Turn over

II. Short Answer questions. Answer *all* nine questions :

- 13 Write two examples for the division Agnatha.
- 14 Enlist the salient features of order Apoda.
- 15 What is meant by retrogressive metamorphosis.
- 16 Write the morphological peculiarities of Ascidia.
- 17 What is wheel organ ? Mention its function.
- 18 Describe the adaptive feature of *Rhacophorus*.
- 19 What is Atrium ?
- 20 What is Air bladder ? Mention its function.
- 21 What is living fossil ? Write an example.

(9 × 1 = 9 weight)

III. Short Answer questions. Answer any *five* questions :

- 22 Describe the differences between Cartilaginous and Bony fishes.
- 23 Comment on the external features of *Amphioxus*.
- 24 Explain the arboreal adaptations of Chameleon.
- 25 What is Paedogenesis ? Write an example.
- 26 Explain the primitive and degenerate characters of *Amphioxus*.
- 27 Write notes on the poison apparatus of snakes.
- 28 Describe the external characters of Bungarus.

(5 × 2 = 10 weight)

IV. Essay questions. Answer any *two* questions :

- 29 Describe the classification of Class Reptilia down to orders. Add notes on the salient features of subclasses and examples.
- 30 Write an essay on the poisonous snakes of South India. Add notes on the identification of poisonous and non-poisonous snakes.
- 31 Explain the accessory respiratory organs in fishes. Add notes on the distribution of fishes.

(2 × 4 = 8 weight)