

D 31636

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Name.....

Reg. No.....

**THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2022**

Zoology

ZOL 3B 03—ANIMAL DIVERSITY : CHORDATA—I

(2017—2018 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A**I. One Word Questions. Answer *all* questions. Each question carries 1 mark :

- 1 Mention order to which *Trygon* belongs to.
- 2 Name an Amphibian exhibiting parental care.
- 3 *Chimaera* belongs to the order \_\_\_\_\_.
- 4 The venom of *Naja* is \_\_\_\_\_ type.
- 5 Mention the genus name of mackerel.
- 6 *Ascidia* exhibits \_\_\_\_\_ metamorphosis
- 7 The larva of *Ambystoma* is \_\_\_\_\_.
- 8 \_\_\_\_\_ is an ovoviviparous fish
- 9 The kidney of *Calotes* is \_\_\_\_\_ type.
- 10 \_\_\_\_\_ is an aquatic reptile.

(10 × 1 = 10 marks)

**Part B**II. Short Answer Questions. Answer any *ten* questions. Each question carries 2 marks :

- 11 Write notes on life cycle of *Doliolum*.
- 12 Comment on the discovery of *Nasikabatrachus sahyadrensis*.
- 13 What is optic chiasma ?
- 14 Write down the adaptations of *Sphenodon*.
- 15 What are solenocytes ? Mention their function.
- 16 Distinguish between crocodiles and alligators.

Turn over

- 17 Write notes on air bladder of Mullet.
- 18 Comment on the taxonomic significance of *Latimeria*.
- 19 Write notes on ammocoetus larva.
- 20 What is retrogressive metamorphosis? Give example.
- 21 Explain sexual dimorphism in frog.
- 22 Distinguish between lampreys and hag fishes.

(10 × 2 = 20 marks)

### Part C

III. Paragraph Questions. Answer any *five* questions. Each question carries 6 marks :

- 23 Explain the structure of gills of Mullet.
- 24 With the help of a diagram, describe the male reproductive system of *Calotes*.
- 25 Distinguish between Chondrichthyes and Osteichthyes.
- 26 Explain the diagnostic features of order Apoda. Write notes on any two examples from this order.
- 27 Classify Phylum Chordata down to subphyla, giving salient features of each phylum.
- 28 Discuss the affinities of Branchiostoma.
- 29 Explain the structure of ear of frog.
- 30 Explain the diagnostic features of order Dipnoi. Cite examples and comment on their distribution.

(5 × 6 = 30 marks)

### Part D

IV. Essay Questions. Answer any *two* questions. Each question carries 10 marks :

- 31 Describe the structure of the arterial system of frog with the help of a labeled diagram.
- 32 Explain the identification key for poisonous snakes of Kerala.
- 33 Classify Reptilia down to orders giving diagnostic features and citing examples.
- 34 Describe the structure of the brain of Mullet with the help of a labeled sketch.

(2 × 10 = 20 marks)