

D 71662

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Name.....

Reg. No.....

THIRD SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS—UG)

Zoology

ZOL 3B 03—ANIMAL DIVERSITY : CHORDATA—I

Time : Three Hours

Maximum : 80 Marks

Part A

I. One Word Questions. Answer **all** questions. Each carries 1 mark.

- 1 The ventral exoskeletal plate of chelonians is called _____.
- 2 Bodywall of *Branchiostoma* is composed of a series of metamericly arranged muscle segments called _____.
- 3 Mention a urochordate which exhibits alternation of generations.
- 4 Jawless vertebrates belong to the division _____.
- 5 Mention the genus name of sting ray.
- 6 _____ is the oldest living reptile.
- 7 Turtles belong to the subclass _____.
- 8 Mention a neotenus amphibian.
- 9 *Rastrelliger* belongs to the order _____.
- 10 Mention the oldest living group of fishes.

(10 × 1 = 10 marks)

Part B

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

- 11 Write on paedogenesis with reference to a urochordate you have studied.
- 12 Mention the affinities of Cephalochordata with Urochordata.
- 13 Write briefly on lampreys.
- 14 Distinguish between shark and ray.
- 15 Write briefly on Australian lung fish.
- 16 Comment on air bladder in mullet.

- 17 What is portal system ?
- 18 Distinguish between pulmonary and systemic circulation.
- 19 Write briefly on *Necturus*.
- 20 Comment on the cloaca of *Calotes*.
- 21 Write the mammalian features of crocodiles.
- 22 Mention the distinguishing features of *Daboia*.

(10 × 2 = 20 marks)

Part C

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

- 23 With a labelled diagram explain the external morphology of *Branchiostoma*.
- 24 Classify Urochordata giving salient features and one example for each.
- 25 Explain the salient features of the subphylum Vertebrata.
- 26 With a labelled diagram of the ventral view, explain the structure of the brain of mullet.
- 27 Explain the structure of the male reproductive organs of *Calotes* with illustration.
- 28 Explain the ventricles of the brain of frog with a labelled diagram.
- 29 Citing an example, explain the salient features of the order Rhyncocephalia.
- 30 Write a note on limbless amphibians.

(5 × 6 = 30 marks)

Part D

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

- 31 Classify the superclass Pisces down to orders giving salient features and one example each.
- 32 With a labelled diagram explain the external morphology of *Mugil*.
- 33 With illustrations explain the male and female urinogenital systems of frog.
- 34 With labelled diagrams of the dorsal and ventral views explain the structure of the brain of *Calotes*.

(2 × 10 = 20 marks)