

C 41255

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Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL, 2023**

Zoology

ZOL 4B 04T—ANIMAL DIVERSITY : CHORDATA—Part II

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

I. Short Answer Questions. Each question carries 2 marks.

- 1 Distinguish between retrices and remiges.
- 2 Write the vertebral formula of *Columba livia*.
- 3 Mention the aquatic adaptations of penguin.
- 4 Mention the salient features of Strigiformes.
- 5 Write a brief note on kiwi.
- 6 Explain the jaw suspension in *Oryctolagus cuniculus*.
- 7 Distinguish between pulmonary circulation and systemic circulation.
- 8 Mention the flying adaptations of chiropterans.
- 9 Mention the salient features of the order Perissodactyla.
- 10 Distinguish between digitigrade and plantigrade progression.
- 11 Distinguish between pronephric and metanephric kidneys.
- 12 Compare the ventricles of the heart of Amphibia and Reptilia.

(Ceiling : 20 marks)

Section B

II. Paragraph Questions. Each question carries 5 marks.

- 13 With a labeled diagram explain the female genital organs of *Columba livia*.
- 14 Write an account on the flightless birds you have studied.

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- 15 Explain the salient features of *Archaeopteryx lithographica*.
- 16 With a labeled diagram explain the salivary glands of *Oryctolagus cuniculus*.
- 17 Mention the salient features of the order Proboscidea.
- 18 Write an account on egg laying mammals.
- 19 Compare the excretory systems of birds and mammals.

(Ceiling : 30 m)

Section C

III. Essay questions. Answer any *one* question.

- 20 With illustrations explain different kinds of feathers in *Columba livia*.
- 21 With a labeled diagram explain the internal structure of the heart of *Oryctolagus cuni*.
Add a note on the working of the heart.

(1 × 10 = 10 m)