



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 3rd Semester Examination, 2023-24



**ZOOACOR05T-ZOOLOGY (CC5)**

Full Marks: 40

Time Allotted: 2 Hours

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
  - (a) What are the main identifying features of Chordates?
  - (b) What is papilla amphibiorum? What is its function?
  - (c) What is vibrissae?
  - (d) Name two glands present exclusively in mammals.
  - (e) What is syrinx?
  - (f) What is adaptive radiation?
  - (g) Name one poisonous and one non-poisonous snake.
  - (h) Where do you find suprabranchial organ and pneumatic sac?
  - (i) What is pneumatic duct?
  - (j) State two peculiar characters of Prototheria.
  - (k) What do you understand by Sauropsida and Synapsida?
  - (l) Differentiate between placoid and cycloid scales.
  
2. Answer any **three** questions from the following: 3×3 = 9
  - (a) What are the basic characteristics of phylum Chordata?
  - (b) Elaborate the role of swim bladder as a buoyant organ.
  - (c) What is paedogenesis? How is it different from Neoteny? 1+2
  - (d) What is continental drift theory?
  - (e) Describe the mechanism of echolocation in cetaceans.
  - (f) Write down the basic characters to identify a mammal.
  
3. Answer any **three** questions from the following: 5×3 = 15
  - (a) Define anadromous migration in fish. How do fishes overcome the challenge of osmotic stress in course of this kind of migration? 1+4
  - (b) What are the different types of fangs in snakes depending on their position? How is venom discharged? 3+2
  - (c) What are the major retrogressive changes in Ascidian tadpole during metamorphosis?
  - (d) Name the class and order of the following animals: 1×5 = 5
    - (i) Ascidia
    - (ii) Sting ray
    - (iii) Necturus
    - (iv) Viper
    - (v) Loris.
  - (e) Describe the mechanism of flight in birds with the help of a suitable diagram.
  - (f) Elaborate the feeding mechanism of Branchiostoma.

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