



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 3rd Semester Examination, 2022-23



ZOOACOR05T-ZOOLOGY (CC5)

Time Allotted: 2 Hours

Full Marks: 40

*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) Write two distinguishing features between Ratitae and Carinatae.
 - (b) State two functions of swim bladder.
 - (c) What is pterylae?
 - (d) What are catadromous fish? Give examples.
 - (e) What is melon?
 - (f) What is the organ of Jacobson?
 - (g) What are filoplume?
 - (h) Name two mammals found in Neotropical realm.
 - (i) Distinguish between scales of fishes and reptiles.
 - (j) What is Wallace line?
 - (k) What is solenoglyphous teeth? Give example.
 - (l) Justify the naming of Cephalochordata.

2. Answer any **three** questions from the following: 3×3 = 9
 - (a) Name the subdivisions of Oriental realm. Name two birds and two mammals of this realm. 1+1+1
 - (b) Write the types of migration in birds with proper examples.
 - (c) Enumerate the progressive and retrogressive changes that occur in the tadpole larva of *Ascidia* sp.
 - (d) Elaborate the structure of a contour feather in bird.
 - (e) Narrate the role of thyroid hormone in Amphibian metamorphosis.
 - (f) Write a short note on Dipleurula origin of chordata.

3. Answer any **three** questions from the following: 5×3 = 15
 - (a) Name the class and order of the following: 1×5 = 5
 - (i) *Myxine* sp (ii) *Scoliodon* sp (iii) *Hyla* sp (iv) *Gavialis* sp (v) *Loxodonta* sp
 - (b) Write a note on the structure and location of Labyrinthine organ and Arborescent organ in fishes. 2½+2½
 - (c) Elaborate the biting mechanism in Vipers. 5
 - (d) Briefly describe the adaptive radiation in land mammals with reference to their locomotory organs. 5
 - (e) What are the different types of horns? Write about the epidermal glands in mammals. 3+2
 - (f) What are brood pouch, integumentary cup and foam nest? How mouth cavity is used for parental care in amphibians? 3+2

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