

B.Sc. Semester - 2 (NEP-2020) Examination**MARCH/APRIL-2026****ZOO: Fundamentals of Zoology -2 (Multidisciplinary Course)****Time: 2:00 Hours****Marks: 50****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Que. 1 Answer the following questions (10)

- 1) Describe the histological structure and function of a skeletal muscle.
- 2) Explain the structure and function of thyroid gland.

OR

Que. 1 Answer the following questions

- 1) Describe the structure and function of Kidney.
- 2) Describe the structure and function of Adrenal gland in detail.

Que. 2 Answer the following questions (10)

- 1) Describe the mechanism of muscle contraction in detail.
- 2) Write a short note on the structure of nephron.

OR

Que. 2 Answer the following questions

- 1) Write a short note on control of renal function.
- 2) Describe the formation of urine in detail.

Que. 3 Answer the following questions (10)

- 1) Describe the social behaviour in termites.
- 2) Describe the courtship and reproductive behaviour of Spider, Scorpion and Peacock.

OR

Que. 3 Answer the following questions

- 1) Write a short note on the contribution of Karl Von Frisch in ethology.
- 2) Describe the social behaviour in honey bees.

Que. 4 Answer the following questions (10)

- 1) Write a note on marine ecosystem in detail.
- 2) Write a note on structure and function of an ecosystem.

OR

Que. 4 Answer the following questions

- 1) Describe the pond ecosystem in detail.
- 2) Write a note on food chain.

Que. 5 Answer the following questions (10)

- 1) Describe structure and functions of pituitary gland.
- 2) Describe the physiology of nitrogenous waste production.

OR

Que. 5 Answer the following questions

- 1) Write a note on parental care behaviour with suitable examples.
- 2) Describe the grassland ecosystem in detail.
