

B.Sc. Semester - 2 (NEP-2020) Examination**MARCH/APRIL-2025****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 skeletal and cardiac muscles.
2) Explain the structure and function of pituitary gland.
OR
- Que-1 Answer the following questions
1) Describe Histological structure and function of visceral and cardial muscle.
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) Write a brief note on the origin and history of ethology.
OR
- Que-3 Answer the following questions
1) Write a short note on the contribution of Karl Von Frisch in ethology.
2) Describe the courtship behaviour in arthropods with suitable examples.
- 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) Write a short note on the hormones of the thyroid 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.
