

B.Sc. Semester - 2 (NEP-2020) Examination**MARCH/APRIL-2026****ZOO: Fundamentals of Zoology -2 (Major-4)****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 histological structure and function of cardiac muscle.
 - 2) Describe histological structure and function of skeletal muscle.
- Que. 1 Answer the following questions.
- 1) Describe histological structure and function of Kidney.
 - 2) Describe histological structure and function of Adrenal gland.
- Que. 2 Answer the following questions. (10)
- 1) Describe the structure of nephron with labelled diagram.
 - 2) Write short note on nitrogenous waste.
- Que. 2 Answer the following questions.
- 1) Describe mechanism of muscle contraction.
 - 2) Describe control of renal function.
- Que. 3 Answer the following questions. (10)
- 1) Describe social behavior of termite.
 - 2) Describe parental care behaviour: (i) Arius (ii) Ichthyophis (ii) Alytes.
- Que. 3 Answer the following questions.
- 1) Describe social behavior of honey bee.
 - 2) Discuss the contribution of Ivan Pavlov and Niko Tinbergen in ethology.
- Que. 4 Answer the following questions. (10)
- 1) Write short note on grassland ecosystem.
 - 2) Write short note on fresh water pond ecosystem.
- Que. 4 Answer the following questions.
- 1) Write short note on marine ecosystem.
 - 2) Write note on food web.
- Que. 5 Answer the following questions. (10)
- 1) Describe histological structure and function of Thyroid gland.
 - 2) Explain formation of urine.
- Que. 5 Answer the following questions.
- 1) Describe courtship behavior of spider and peacock.
 - 2) Describe the roles of producers, consumers and decomposers in food chain with examples.
