

B.Sc. Semester - 2 (NEP-2020) Examination**MARCH/APRIL-2025****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.

Que-1 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe histological structure and function of skeletal and visceral muscles.
2. Describe histological structure and function of Thyroid gland.

OR

Que-1 ANSWER THE FOLLOWING QUESTIONS.

1. Describe histological structure and function of visceral and cardiac muscles.
2. Describe histological structure and function of Pituitary gland.

Que-2 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe physiology of muscle contraction.
2. Describe structure of Nephron.

OR

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 contribution of Karl Von Frisch and Ivan Pavlov in Ethology.
2. Describe Social Behaviour of termite.

OR

Que-3 ANSWER THE FOLLOWING QUESTIONS.

1. Describe Social Behaviour of honey bee.
2. Describe Courtship and Reproductive behaviour of spider, scorpion and peacock.

Que-4 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe pond ecosystem in detail.
2. Describe food chain in detail.

OR

Que-4 ANSWER THE FOLLOWING QUESTIONS.

1. Describe marine ecosystem in detail.
2. Describe food web in detail.

Que-5 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe histological structure and function of Adrenal gland.
2. Describe Nitrogenous Waste in detail.

OR

Que-5 ANSWER THE FOLLOWING QUESTIONS.

1. Describe parental care Behaviour in Arius, Ichthyophis and Alytes.
2. Describe Grassland Ecosystem.
