

B.Sc. Semester - 3 (NEP-2020) Examination**OCT/NOV-2024****ZOO: Fundamentals of Zoology -3 (Multidisciplinary Course)****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) Write a note on Mitosis in detail.
- 2) Write a note on Ribosome.

OR

Que-1 Answer the Followings Questions. (10)

- 1) Write a note on Transport of nutrients across cell membrane.
- 2) Write a note on Endoplasmic reticulum.

Que-2 Answer the Followings Questions. (10)

- 1) Describe rotary microtome and write its applications.
- 2) Describe histological structure and function of mammalian spleen.

OR

Que-2 Answer the Followings Questions. (10)

- 1) Explain the process of tissue fixation.
- 2) Describe histological structure and function of mammalian skin.

Que-3 Answer the Followings Questions. (10)

- 1) Give a detailed account on cardiac cycle and cardiac output.
- 2) Write a note on ecological pyramid.

OR

Que-3 Answer the Followings Questions. (10)

- 1) Write a short note on blood pressure.
- 2) Write a note on energy flow in ecosystem.

Que-4 Answer the Followings Questions. (10)

- 1) Write differences between National Parks & Sanctuaries.
- 2) Write a note on Gir Forest National Park.

OR

Que-4 Answer the Followings Questions. (10)

- 1) Write a note on Kutch desert wildlife sanctuary.
- 2) Write a note on Barda wildlife sanctuary.

Que-5 Answer the Followings Questions. (10)

- 1) Explain structure and functions of Nucleus.
- 2) Write note on: Types of fixative.

OR

Que-5 Answer the Followings Questions. (10)

- 1) Write note short note on electrocardiogram (ECG).
- 2) Write note on Marine National Park - Gulf of Kutch.
