

B.Sc. Semester - 3 (NEP-2020) Examination

OCT/NOV-2025

ZOO: Non-Chordates -2, Cell Biology and Wildlife (Major-5)

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 down the classification of phylum Platyhelminthes up to class with suitable examples.
2. Describe: Life cycle and pathogenicity of *Ascaris lumbricoides*.

OR

Que.1 Answer the following questions.

1. Write down the classification of phylum Nematoda up to class with examples.
2. Explain Digestive system of Liver fluke with diagram.

Que.2 Answer the following questions. (10)

1. Write down the classification of phylum Annelida up to class with characters and examples.
2. Describe the mouthparts of Male *Anopheles* mosquito with neat and labelled diagrams.

OR

Que.2 Answer the following questions.

1. Give classification of Phylum Arthropoda up to class with example
2. Explain Male Reproductive system of Leech with labelled diagram.

Que.3 Answer the following questions. (10)

1. Write a detail note on structure and functions of Mitochondria.
2. Write a note on Mitosis.

OR

Que.3 Answer the following questions.

1. Describe structure and function of Endoplasmic reticulum.
2. Describe transport of Nutrients, ions and macromolecules across cell membrane.

Que.4 Answer the following questions. (10)

1. Describe any two Tiger reserves in detail.
2. Write a short note on the Semi-Arid Biogeographic zone of India.

OR

Que.4 Answer the following questions.

1. Describe conservation reserves.
2. Describe any two Elephant reserves in detail.

Que.5 Answer the following questions. (10)

1. Write a note on parasitic adaptations of flatworms.
2. Explain Peripatus as connecting link between Annelida and Arthropoda.

OR

Que.5 Answer the following questions.

1. Describe structure and function of Ribosome.
2. Describe the strategies and guidelines for planning Protected Areas in India.
