

B.Sc. Semester - 4 (NEP-2020) Examination

March/April-2026

ZOO: Non-Chordates -2, Cytology and Wildlife Management (Minor-3)

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. Give the classification of phylum Platyhelminthes up to class.
2. Describe life cycle and pathogenicity of *Wuchereria bancrofti*.

OR

Que.1 ANSWER THE FOLLOWING QUESTIONS.

1. Give the classification of phylum Nematoda up to class.
2. Describe life cycle and pathogenicity of *Ascaris lumbricoides*.

Que.2 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Give the classification of phylum Annelida up to class.
2. Describe life cycle of Anopheles mosquito.

OR

Que.2 ANSWER THE FOLLOWING QUESTIONS.

1. Describe Peripatus as connecting link.
2. Describe mouth parts of female Culex mosquito.

Que.3 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe structure and function of Mitochondria.
2. Describe Mitosis in detail.

OR

Que.3 ANSWER THE FOLLOWING QUESTIONS.

1. Describe structure and function of Endoplasm reticulum.
2. Describe transport of Nutrients and ions across cell membrane.

Que.4 ANSWER THE FOLLOWING QUESTIONS. (10)

1. List the biogeography zones of India and describe any three of them.
2. Write a note on Tiger Reserves.

OR

Que.4 ANSWER THE FOLLOWING QUESTIONS.

1. Describe Conservation reserves.
2. Write a note Elephant reserves.

Que.5 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Write a note on Parasitic adaptation of flat worms.
2. Give the classification of phylum Arthropoda up to class.

OR

Que.5 ANSWER THE FOLLOWING QUESTIONS.

1. Describe structure and function of Ribosome.
2. Describe Biosphere reserve.
