

B.Sc. Semester - 5 (Remedial) (NEP-2020) Examination**March/April-2026****ZOO: Zoology in Indian Knowledge Systems and Evolutionary Biology (Major-11)****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 any two ancient Indian texts highlighting their contribution to animal studies and knowledge.
2. Write a note on the use of elephants and horses in ancient Indian warfare with examples.

OR

Que.1 ANSWER THE FOLLOWING QUESTIONS.

1. Write short note on the role of animals in rituals, ceremonies, and festivals of ancient India.
2. Explain the concept of Vahanas and give examples of at least four deities with their symbolic animal mounts and discuss meaning behind their association.

Que.2 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Write note on Panchabhutas and how they influence animal life according to Vedic or Upanishadic thought.
2. Discuss the role of astronomy in observing and interpreting animal behavior in ancient India.

OR

Que.2 ANSWER THE FOLLOWING QUESTIONS.

1. Write note on Rta (cosmic order) and its relation to ecological balance in context of Indian Knowledge Systems..
2. Describe animal behavior and ecology reflected in ancient Indian literature, folklore, and art. Give examples of it.

Que.3 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe concept of Tridosh in animal physiology.
2. Which plants or natural ingredients were most commonly used in ancient animal treatments?

OR

Que.3 ANSWER THE FOLLOWING QUESTIONS.

1. Give examples of key references for animal physiology found in Ayurvedic texts.
2. Write a note on ecological importance of sacred groves and its role in conserving local biodiversity with examples.

Que.4 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe Mesozoic era and the important evolutionary events of it.
2. Explain types of speciation.

OR

Que.4 ANSWER THE FOLLOWING QUESTIONS.

1. Describe the Australian realm in detail.
2. Briefly describe microevolution with suitable examples.

Que.5 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe use of cattle and other animals in agriculture.
2. Describe traditional knowledge about animal habitats and behavior in Indian communities.

OR

Que.5 ANSWER THE FOLLOWING QUESTIONS.

1. Discuss the present-day role of zoologists in society for animal conservation in the context of Indian Knowledge Systems.
2. Describe necessity of dispersal and barriers of dispersal.
