

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2026****ZOO: Fisheries, Animal Husbandry, Biotechnology and Toxicology (Major-9)****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 Indian Major carps.
2. Write note on Fungus infection and white spot disease in fishes.

OR

Que.1 ANSWER THE FOLLOWING QUESTIONS.

1. Describe Hormonal regulation of Gonadal development and activity of releasing hormone in Induced breeding.
2. Write note on any six fish by products.

Que.2 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe Life cycle of Honey Bee.
2. Describe formation of Pearl.

OR

Que.2 ANSWER THE FOLLOWING QUESTIONS.

1. Describe Types of Silkworms.
2. Describe products of Apiculture industry and its uses.

Que.3 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe any four Restriction Enzymes.
2. Describe applications of Recombinant DNA Technology.

OR

Que.3 ANSWER THE FOLLOWING QUESTIONS.

1. Write a note on Isolation of DNA.
2. Describe Polymerase chain reaction.

Que.4 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe metabolism of Aspirin with its toxic effects on tissues.
2. Give an account of Metal toxicity of Mercury and Lead.

OR

Que.4 ANSWER THE FOLLOWING QUESTIONS.

1. Describe factors influencing on toxicity.
2. Give a general account on determination of ED₅₀ and LD₅₀.

Que.5 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe post harvesting techniques.
2. Describe Life cycle of *Bombyx mori*.

OR

Que.5 ANSWER THE FOLLOWING QUESTIONS.

1. Give general account on DNA finger printing.
2. Describe toxicity of Organophosphates and Carbamates.
