

B.Sc. Semester - 6 (NEP-2020) Examination**March/April-2026****ZOO: General Account of Non-Chordata and Chordata, Immunology, Embryology and Developmental Biology (Major-15)****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 Asexual reproduction in Porifera.
- 2) Describe Zoea and Megalopa larva.

OR

Que.1 Answer the following questions.

- 1) Describe regeneration in Annelida.
- 2) Write a note on Coel glands and Malpighian tubules.

Que.2 Answer the following questions. (10)

- 1) Write a note on nails, claws and hoofs as integuments.
- 2) Write a note on Arterial system of *Rattus rattus*.

OR

Que.2 Answer the following questions.

- 1) Compare the heart of Pisces and Reptiles.
- 2) Sketch and label Venous system of *Rattus rattus*.

Que.3 Answer the following questions. (10)

- 1) Write a note on types of immunity.
- 2) Describe T-cells and Macrophages.

OR

Que.3 Answer the following questions.

- 1) Describe type and properties of Antigens.
- 2) Give the detail account on Immunoglobulin.

Que.4 Answer the following questions. (10)

- 1) Sketch and label: 72 hour chick embryo.
- 2) Describe Menstrual cycle in mammals.

OR

Que.4 Answer the following questions.

- 1) Describe placenta in detail.
- 2) Describe Menopause.

Que.5 Answer the following questions. (10)

- 1) Describe Amphiblastula and Parenchymula larva.
- 2) Compare the Aortic arches of Pisces and Amphibia.

OR

Que.5 Answer the following questions.

- 1) Describe Antigen-antibody interaction.
- 2) Describe 48 hour chick embryo.
