

**B.Sc. Semester - 5 (NEP-2020) Examination****Oct/Nov - 2025****ZOO: Chordates -3 and Physiology (Major-12)****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 type, structure and function of air-bladder in fishes.
2. Describe Anapsid and Diapsid skull in Reptiles.

OR

Que.1 ANSWER THE FOLLOWING QUESTIONS.

1. Describe types of caudal fins in fishes.
2. Give a general account of dentition in mammals.

Que.2 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Compare pronephrous and metanephrous kidney.
2. Compare the brain of Pisces and Reptiles.

OR

Que.2 ANSWER THE FOLLOWING QUESTIONS.

1. Compare stomach of Reptiles and Mammals.
2. Sketch and label Brain of Aves.

Que.3 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe physiology of blood coagulation.
2. Describe physiology of Pulmonary Ventilation.

OR

Que.3 ANSWER THE FOLLOWING QUESTIONS.

1. Describe coronary artery disease.
2. Describe physiology of exchange of gases.

Que.4 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Describe structure and types of neurons.
2. Write a note on ovary as endocrine gland and hormones of it.

OR

Que.4 ANSWER THE FOLLOWING QUESTIONS.

1. Write a note on testis as endocrine gland and hormones of it.
2. Write a note on lymphatic organs and its role.

Que.5 ANSWER THE FOLLOWING QUESTIONS. (10)

1. Write a note on synsacrum in Aves.
2. Compare the intestine of Pisces and Amphibia.

OR

Que.5 ANSWER THE FOLLOWING QUESTIONS.

1. Describe transport of oxygen.
2. Write a note on conduction of nerve impulse.

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