

B.Sc. Semester - 1 (NEP-2020) Examination**OCT/NOV-2025****ZOO: Fundamentals of Zoology-1 (Major-2)****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 the structure and function of Golgi complex.
- (2) Describe Prokaryotic and Eukaryotic animal cells.

OR

Que.1 Answer the following questions.

- (1) Describe the structure and function of Lysosome.
- (2) Describe: Tight junctions and Gap junctions.

Que.2 Answer the following questions. (10)

- (1) Describe the structure, location and function of columnar and ciliated epithelium.
- (2) Describe the structure and function of cartilage connective tissue.

OR

Que.2 Answer the following questions.

- (1) Describe histological structure and function of mammalian stomach.
- (2) Describe histological structure and function of mammalian liver.

Que.3 Answer the following questions. (10)

- (1) Write a detailed note on digestion and absorption of carbohydrates.
- (2) Describe physiology of coagulation of blood.

OR

Que.3 Answer the following questions.

- (1) Write a detailed note on digestion and absorption of protein.
- (2) Describe different types of WBCs.

Que.4 Answer the following questions. (10)

- (1) Explain in detail cistron, recon, Muton and Jumping genes.
- (2) Describe blood groups in human.

OR

Que.4 Answer the following questions.

- (1) Explain multiple alleles through the example of "C" gene rabbit.
- (2) Describe Erythroblastosis foetalis.

Que.5 Answer the following questions. (10)

- (1) Describe the structure and function of Plasma membrane.
- (2) Describe histological structure and function of mammalian Pancreas.

OR

Que.5 Answer the following questions.

- (1) Define multiple alleles. Give the characters of Multiple alleles.
- (2) Describe digestion and absorption of Lipid.
