

B.Sc. Semester – 1 (NEP-2020) Examination**January-2024****Fundamentals of Zoology -1 (MDC)****Time: 2:00 Hours****Marks: 50****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Que.1 Answer the following question. (10)

1. What is cell? Describe cell theory in details.
2. Describe structure and function of lysosomes

OR

Que.1 Answer the following question.

1. Write a note on difference between Prokaryotic and Eukaryotic cells.
2. Describe structure and function of Golgi Complex.

Que.2 Answer the following question. (10)

1. Describe ciliated epithelium in detail.
2. Write a note on histological structure of Pancreas.

OR

Que.2 Answer the following question.

1. Explain structure and function of Areolar connective tissues.
2. Write a note on histological structure of Stomach.

Que.3 Answer the following question. (10)

1. Write a note on absorption of carbohydrates and proteins in intestine.
2. Explain physiology of coagulation of blood.

OR

Que.3 Answer the following question.

1. Describe digestion of proteins in alimentary canal.
2. Write a note on composition of blood.

Que.4 Answer the following question. (10)

1. Write a note on Cistron, Muton and Jumping genes.
2. Explain multiple alleles 'C' gene in Rabbit in detail.

OR

Que.4 Answer the following question.

1. Write a note on 'Rh' factor & Erythroblastosis foetalis.
2. Describe characters of multiple alleles in detail.

Que.5 Answer the following question. (10)

1. Write a note on Gap junctions with their functions.
2. Describe Squamous epithelium with their functions.

OR

Que.5 Answer the following question.

1. Write a note on digestion of lipid in alimentary canal.
2. Explain A, B, AB and O blood groups in Humans.
