

B.Sc. Semester – 1 (NEP-2020) Examination**January-2024****Introduction to Biotechnology (Major-2)****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 Explain in detail about Recombinant DNA Technology and its application. (10)

OR

Que.1 Discuss: Application of Biotechnology in Agriculture.

Que.2 Describe in detail: Organisation of plant and animal cell with labelled diagram. (10)

OR

Que.2 Explain ultrastructure and function of Prokaryotic cell.

Que.3 Write a note on cell wall and plasma membrane structure. (10)

OR

Que.3 Discuss the structure of Mitochondria with a labelled diagram. Describe various functions of mitochondria.

Que.4 Explain various stages of Mitosis in detail. (10)

OR

Que.4 Describe various stages of cell cycle. Explain its regulation.

Que.5 Discuss in detail about cell origin and its evolution. (10)

OR

Que.5 Write a detailed note on chromosome structure.
