

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

1. All questions are compulsory.
 2. Figures to the right indicate marks.
-

Que.1 Write a detailed note on current status of Biotechnology. (10)

OR

Que.1 Elaborate on application of Biotechnology in agriculture and environment.

Que.2 Enlist any ten differences between eukaryotic and prokaryotic cell. (10)

OR

Que.2 Virus – Describe all the structural components in detail.

Que.3 Cell wall gives strength to the cell – justify the statement. (10)

OR

Que.3 Plasma membrane is a semi permeable membrane – justify the statement.

Que.4 Define cell cycle. Elaborate the phases of cell cycle. (10)

OR

Que.4 Mitosis produces two identical cells after cell division – explain with labelled diagram.

Que.5 Mitochondria and Chloroplast – Explain in detail. (10)

OR

Que.5 Write a short note on nucleus and regulation of cell cycle.
