

Roll No.

Total Pages : 2

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BT-2/M-12

INTRODUCTION TO BIOTECHNOLOGY

Paper-BT-101-E

Time Allowed : 3 Hours]

[Maximum Marks : 100

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit.

UNIT-I

1. Describe the detailed structure of an animal cell. Also give the functions of each organelle.
2. Enlist different biomolecules and give the basic structures and important functions of proteins and vitamins.

UNIT-II

3. Explain the cell division by the process of meiosis and its significance.
4. Give the morphological features of bacteria and fungi. How bacterial pathogenesis occurs and can be prevented by body's immune response ?

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UNIT-III

5. Describe the principle and process of recombinant DNA technology.
6. What do you understand by Transgenics ? Give the significance of Transgenic plants.

UNIT-IV

7. How biotechnological tools are better than conventional in medicine ?
8. Write notes on the following :
 - (a) Nanobiotechnology
 - (b) Biosensor.

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