

Roll No. Total Pages : 2

BT-2/M-15

8203

INTRODUCTION TO BIOTECHNOLOGY

(Wef 2009-10)

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. All questions carry equal marks.

UNIT-I

1. Give characteristic features of a living cell. How do Plant and Animal cells differ from each other? 20
2. Write short notes on the following : 4x5=20
 - (a) Carbohydrates
 - (b) Vitamins
 - (c) Enzymes
 - (d) DNA.

UNIT-II

3. (a) Tabulate differences between Mitosis and Meiosis. 10
- (b) Discuss genetics of Blood groups in humans. 10
4. (a) How does our immune system defend us from Microorganism? 10

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- (b) Briefly introduce Morphology and Pathogenicity of Microorganisms. 10

UNIT-III

5. What is Recombinant-DNA technology? Explain its basic tools structure and function. 20
6. What are Transgenic organisms? What is their significance and how they are produced? 20

UNIT-IV

7. (a) Biotechnology has helped Industry in achieving new heights. Justify the statement by discussing its salient applications in Industry. 10
- (b) Discuss applications of Biotechnology in Forensics. 10
8. Write explanatory notes on : 2x10=20
 - (a) Bioinformatics
 - (b) Ethical issues related to Biotechnology.