

Roll No.

Total Pages : 03

BT-2/M-19

32003

INTRODUCTION TO BIOTECHNOLOGY

BT-101E

{ Time : Three Hours]

[Maximum Marks : 100

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

Unit I

- 1. (a) Differentiate between prokaryotic and eukaryotic cell. 10
- (b) Write the functions of various cell organelles in a eukaryotic cell. 10
- { (a) Write general classification and important functions carbohydrates with suitable examples. 10
- (b) Differentiate between DNA and RNA. 5
- (c) What are Enzymes ? Write general properties of enzymes. 5

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Unit II

- 3. (a) Draw a well labelled diagram showing different stages of mitosis. 10
- (b) What is Diabetes ? Write the causes, symptoms and cure of this disease. 10
- 4. (a) Write short notes on the following :
 - (i) Genetic Disorders
 - (ii) Genetics of blood groups
 - (iii) Mutations. 4×3
- (b) Explain the role of microbes in the world. 8

Unit III

- 5. (a) Explain the process of recombinant DNA technology with the help of a well labelled diagram. 10
- (b) Write brief notes on the following :
 - (i) Plasmids
 - (ii) Restriction enzymes
 - (iii) Vector
 - (iv) Genetically Modified Animals
 - (v) BT Cotton. 2×5
- 6. (a) By giving suitable examples, describe the procedure for production of transgenic plants and animals. 15

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- (b) Write the significance of some genetically modified organisms. 5

Unit IV

7. Write the applications of biotechnology in the field of medicine, environment agriculture and industry. 20
8. (a) Elaborate the concerns and ethical issues raised by public, government and scientists. 10
- (b) How is biotechnology related with bioinformatics and nanotechnology ? 10

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