

BT-2011-1 MAY

Roll No.

Total Pages : 2

Exam. Code

6132

8059

BT-2/M-11

INTRODUCTION TO BIOTECHNOLOGY (W.e.f. 2009-10)

Paper : BT-101(E)

Time : Three Hours] [Maximum Marks : 100

Note : Attempt *five* questions in total selecting at least *one* question from each unit.

UNIT-I

1. (a) Describe the ultrastructure and functions of Endoplasmic reticulum. 10
- (b) How does an animal cell differ from a plant cell ? 10

2. (a) What are Lipids ? Describe the classification and functions of lipids. 10
- (b) Describe the Watson and Crick model of DNA. 10

UNIT-II

3. Explain the process and significance of Cell division in the germ cells of sexually reproducing organisms. 20
4. (a) How bacteria can be classified on the basis of the morphology ? 10
- (b) What are Mutations ? Explain different types of mutations. 10

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UNIT-III

5. (a) Describe different types of tools used in the production of transgenic organisms. 10
- (b) Explain the types and significance of Restriction endonucleases. 10
6. Describe the various methods used for the production of transgenic organisms. 20

UNIT-IV

7. Discuss the significance of Biotechnology in the field of Agriculture and Environment. 20
8. Write notes on the following :
 - (i) Biosensors. 10
 - (ii) Bioinformatics. 10