

Roll No.

Total Pages : 02

BT-I/D-21

41043

BIOLOGY

BS-141A

Time : Three Hours]

[Maximum Marks : 75

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

Unit I

1. Describe the ultrastructure and function of chloroplast and endoplasmic reticulum. **15**
2. Classify the organisms on the basis of molecular taxonomy. **15**

Unit II

3. Describe the general classification and important function of carbohydrates. **15**
4. Describe the general characteristics and classification of enzymes. **15**

Unit III

5. Write short notes on the following :
 - (a) Variation and speciation **7.5**
 - (b) Single gene disorder in human. **7.5**

6. Describe the mitosis and its utility to living systems. **15**

Unit IV

7. Write short notes on the following :
- | | |
|-------------------------|------------|
| (a) Krebs cycle | 7.5 |
| (b) Media compositions. | 7.5 |
8. Write short notes on the following :
- | | |
|--------------------|------------|
| (a) Bioinformatics | 7.5 |
| (b) Bio-MEMS. | 7.5 |