

Roll No.

Total Pages : 02

BT-I/D-21
BIOLOGY
BS-141A

41043

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**