

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**

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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**

