BIOLOGY BS-141-A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

- 1. Describe the ultrastructure of a typical Prokaryotic cell indicating all the cell organelles with the help of well-labelled diagram.

 15
- 2. Write short notes on the following: 15
 - (i) Differentiate between Plant and Animal cell
 - (ii) Characteristic features of living organisms.

Unit II

3. Discuss the general characteristics and classification of carbohydrates in details with the help of suitable examples.

15

15

4. Write short notes on the following:

(i) Mechanism of enzyme action

(ii) Effect of substrate concentration on enzyme activity.

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Unit III

5.	Discuss the concepts of recessiveness and dominance genetics with the help of suitable examples.	in 15
6.	the following:	15
	. Unit IV	
7.	Discuss the Glycolysis pathway and Krebs cycle with help of well-labelled diagrams and highlight significance of each to the living organism.	the the 15
8.	Write short notes on the following: (i) Role of biology in agriculture and health (ii) Concept of species and strains in microbiolohgy	15 /.