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Total Pages: 02

## BT-4/M-24

42040

## 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.
- 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

4. Write short notes on the following:

15

- (i) Mechanism of enzyme action
- (ii) Effect of substrate concentration on enzyme activity.

# Unit III

5.	. Discuss the concepts of recessiveness and dominar			
	genetics with the help of suitable examples.	5		
6.	Write short notes on the following: 15			
	(i) Mitosis and meiosis cell division			
	(ii) Evidence of nucleic acids as genetic material.	• **		
	Unit IV			
7.	Discuss the Glycolysis pathway and Krebs cycle with the	ıe		
	help of well-labelled diagrams and highlight th	ıe		
	significance of each to the living organism.	5		
8.	Write short notes on the following:	5		
•	(i) Role of biology in agriculture and health			
•	(ii) Concept of species and strains in microbiolohgy.			
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