Roll No Total Pages: 02
BT-1/D-22 41043
BIOLOGY
BS-141A
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. The second of the seco
1. (a) Enlist the features of living organisms. 7
(b) Draw the structure of mitochondria and endoplasmic reticulum.
2. Classify the organisms on the basis of energy and carbon
utilisation and habitat.
Unit II
3. (a) Classify the carbohydrates based on functional group
and number of carbons.

Differentiate between plant and animal cell. (b)

Classify enzymes based on criteria which is most (a) acceptable and as per enzyme commission. 10

(b) Enlist the importance of kinetic parameters.

Unit III

5.	Define the process of cell division and with	the	help	of
	diagrams, discuss the process of mitosis.			15

6. (a) Write down the Mendel's law of inheritance along with concept of central dogma of molecular biology.

10

(b) Write a short note on Diabetes type I and type II.

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- 7. Discuss with an example, the concept of exothermic and endothermic reactions along with significance of Gibbs' free energy in metabolism.
- 8. Write short notes on the following:

5×3=15

- (i) ATP as energy currency of cell
- (ii) Concept of species and strains

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(iii) Role of biology in agriculture and medicine.

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