

Roll No.

Total Pages : 2

BT-2/M-20

32040

BIOLOGY

Paper : ES-141A

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all, selecting at least *one* from each unit. All questions carry equal marks.

UNIT-I

- Differentiate between Prokaryotic and Eukaryotic cell with the help of diagram.
 - Write the characteristic features of living organisms. (10,5)
- Classify the organisms on the basis of energy and carbon utilization.
 - Draw the diagram of Nucleus and Endoplasmic reticulum and write their functions. (5,10)

UNIT-II

- Explain different structures and form of DNA how it differs from RNA.
 - Differentiate between primary & secondary proteins. (10,5)
- Write notes on:
 - Classification of enzymes.
 - Effect of pH and temperature on enzyme activity. (15)

32040/PDF/KD/1219

[P.T.O.

UNIT-III

5. Explain different stages of meiosis and its significance. (15)
6. Explain Mendels Law of inheritance. (15)

UNIT-IV

7. Explain the role of biology in agriculture and medicine. (15)
8. Write notes on :
- (a) Biosensors.
- (b) BioMEMS. (15)
-