

[4319] - 102
S.Y.B.Sc. (Semester - I)
BIOTECHNOLOGY
Bb-212 : Cell Biology
(Old & New Course)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicates full marks.*
- 3) Draw neat & labelled diagrams wherever necessary.*

Q1) Answer the following in 2-3 sentences.

[10 × 2 = 20]

- a) Give unique features of cell theory.
- b) Enlist the enzymes present in mitochondria's inner membrane.
- c) Enlist the factors affecting cell size.
- d) Write the role of spindle fibre in mitosis .
- e) What are F_1 particle?
- f) Define desmosomes.
- g) Define facilitated diffusion.
- h) Significance of s phase in cell cycle.
- i) Write principle of scanning electron microscope.
- j) Give functions of Lysosomes.

Q2) a) Explain with the help of neat & labelled diagram, structure & function of microtubules & micro filaments. **[8]**

OR

Describe different types of cell - surface receptors for cell signalling.

b) Write in detail types of plant tissues with labelled diagram. **[7]**

OR

Explain the role of extracellular matrix and the leucocyte migration.

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