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FIRST YEAR (BSc. Blended)

24BLBI12101: Biology of Cells

(Semester II)

Program: B.Sc. Blended

Program Specific: B.Sc (Blended - Chemistry)

Course Type: DSC

Credits: 2

Time: 2 Hours

Max. Marks: 30

SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Attempt ANY SIX of the following:

[6 X 2 = 12]

- a. Sketch the well labelled diagram of Chloroplast.
- b. What is Aggregate multicellularity?
- c. Enlist the functions of plant cell wall.
- d. Differentiate between mitosis and meiosis.
- e. Why lysosomes are called as Suicidal bags?
- f. Write any two differences between RER and SER.
- g. Enlist two functions of ribosomes.
- h. What are microfilaments?

Attempt **ANY THREE** of the following:

[4 X 3 = 12]

- a. Discuss the experiment perform by Priestly to prove role of air in photosynthesis.
- b. Differentiate between active and passive membrane transport.
- c. Comment on bacterial cell wall.
- d. State cell theory.
- e. Write any four features of Genetic code.

Q3) Attempt ANY TWO of the following:

[2 X 3 = 06]

- a. Explain cell cycle and predict what would happen if a cell skipped the G2 checkpoint before entering mitosis.
- b. Compare the Fluid- Mosaic Model with Danielli Davson Model.
- c. Describe Double helix structure of DNA.
- d. Explain the structure and functions of nucleus.
