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Class – B.Sc. BT (II)yr

Subject – Cell Biology

Paper – BT-4

Time Allowed : 3 hrs.

Maximum Marks : 40

### SECTION- A

All questions are compulsory. Each question will carry one mark. Maximum length of answer can be about 1/3 of a page. (8×1)

1. (i) Cytosol
- (ii) Desmosome
- (iii) Chromatin
- (iv) Microtubules
- (v) Lysosomes
- (vi) Binary fission
- (vii) Cilia
- (viii) Synapsis

### SECTION- B

5 questions to be attempted and maximum length of answer can be upto two pages. Each question carries 4 marks. (5×4)

2. What is Endoplasmic Reticulum? Give its types and also write the enzymes of ER.
3. Give brief account of golgi bodies and their functions.
4. Describe various stages of meiosis with well labelled diagram.

5. Write a note on cell locomotion.
6. Explain biogenesis of Ribosomes.
7. Explain the structure of nuclear membrane along with nuclear pore complex.
8. Write about structure and functions of cell membrane.
9. Write a short note on cell-cell interactions.

### SECTION- C

Two questions to be attempted. Max. length of answer upto 5 pages. Each question carries 6 marks.

(6×2=12)

10. Draw well labelled diagram of mitochondria. Justify its power house nature in cell.
11. Explain cytoskeletal structure present in cell and give their functions.
12. What is peroxysomes? Describe its structure and functions in detail.
13. (a) Cell cycle and its stages
- (b) Amitosis and its regulation.

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