

CELL BIOLOGY - VII

Time : Three Hours]

[Maximum Marks : 52

Note : Attempt *two* questions each from Section A and B carrying 8 marks each, and the entire Section C consisting of 10 short answer type question carrying 2 marks each.

Section - A

1. What is Mitosis ? Discuss its various stages alongwith diagrams.
2. Discuss Differentiation of cell membrane in detail.
3. Describe in detail Cytoplasmic streaming in plant cell.
4. What are Carbohydrates ? Discuss their types and functions.

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Section - B

5. Describe Extrinsic Pathway of Apoptosis.

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6. What is the basis of Cell differentiation ? Discuss its molecular mechanism. 8
7. Explaining the structure fo a Synapse, discuss the synaptic transmission across the synapse. 8
8. Discuss the structure of a Striated muscle fibre. 8

Section - C

9. Answer in short :

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| (a) What are Proteins ? | (b) What is cell cycle ? |
| (c) Pachytene. | (d) List two functions of Plasma membrane. |
| (e) Flagellar movement. | (f) Repolarization and Depolarization. |
| (g) What is Necrosis ? | (h) Nodes of Ranvier. |
| (i) Mineals salts in Cellular pool. | (j) Name any two Neurotransmitters. (2×10=20) |