

## CELL BIOLOGY

Paper-VII : Semester-II

Time Allowed : 3 Hours]

[Maximum Marks : 52

Note : The candidates are required to attempt two questions each from Sections A and B carrying 8 marks each and the entire Section C consisting of 10 short answer type questions carrying 2 marks each.

### SECTION—A

1. Why sucrose is non-reducing whereas glucose is a reducing sugar ? 8
2. Discuss various agencies responsible for the molecular organisation of mitosis spindle apparatus. 8
3. Differentiate between DNA and RNA. 8
4. Describe in detail Cilial and Flagellar movements. 8

### SECTION—B

5. Discuss intrinsic pathway of Apoptosis. 8
6. Discuss general characteristics of Cell differentiation. 8
7. How a Nerve impulse is propagated along the Neuron ? 8
8. Describe sliding mechanism of Muscle contraction. 8

### SECTION—C

9. Answer in brief : 10×2=20
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|---|-------------------------|
| (i) Write two functions of Cholesterol. | (ii) What is Amitosis ? |
| (iii) What are Gap junctions ?          | (iv) Cyclosis.          |
| (v) What is Flagellin ?                 | (vi) Synaptic vesicle.  |
| (vii) CAPASES.                          | (viii) Peptic bond.     |
| (ix) What is Saltatory conduction ?     | (x) Microvilli.         |