

Mode of Examination: Open Book Examination

Unique Paper Code	: 32231202_OC
Name of the Paper	: Cell Biology
Name of the Course	: B. Sc. (H) Zoology
Semester	: II, CBCS
Duration	: 3 Hours
Maximum Marks	: 75

**Instruction for Students**

Write your Roll No., Name of the paper, Course, Semester, and Date of examination on the first page of answer sheet.

Attempt **ANY FOUR** questions. All questions carry equal marks.

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Q1. Describe nucleosomal model of chromatin fiber organization and also explain the various levels of chromatin compaction.

Q2. What is co-translational transport? Describe in detail the process of cell secretion by signal hypothesis.

Q3. Enumerate in detail the process of generation of ATP by the power house of the cell-Mitochondria.

Q4. Describe the various models of plasma membrane which led to deduction of Fluid Mosaic model emphasizing the significance in its functioning.

Q5. What is polymorphism in Lysosomes? Mention the role of lysosomes in fertilization and metamorphosis.

Q6. What are the various phases in Cell cycle? Explain the role of cell cycle check points in regulating Cell cycle.

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