

Paper Id:

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B PHARM
(SEM VIII) THEORY EXAMINATION 2022-23
CELL AND MOLECULAR BIOLOGY

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

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SECTION A

1. Attempt all questions in brief. 10 x 2 = 20

- Differentiate between prokaryotic and eukaryotic cell.
- Define transgenic animals.
- Classify various types of RNA.
- Enlist the function of tRNA and rRNA.
- Define centromere and genome.
- What are chaperones?
- Define genetics.
- Write the functions of microtubules.
- Enlist types of G-protein involved in cell transduction signaling.
- Differentiate between active and passive transport across cell membrane.

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SECTION B

2. Attempt any two parts of the following: 2 x 10 = 20

- Draw a well labelled diagram of eukaryotic cell. Enumerate the functions of Golgi bodies and Endoplasmic reticulum.
- Explain the cell cycle in detail. Highlight the check points in cell cycle.
- Discuss the GPCR mechanism of cell signaling.

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SECTION C

3. Attempt any five parts of the following: 5 x 7 = 35

- Explain the types of cellular reproduction in prokaryotes and eukaryotes.
- Summarize the process of protein synthesis.
- Discuss the fluid mosaic model of cell membrane.
- Write a detailed note on structure and types of proteins.
- Discuss the Central Dogma of molecular biology.
- Describe the different phases of mitosis and their significance in cell division.
- Discuss the types and function of protein kinases.

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