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**BPHARM**  
**(SEM VIII) THEORY EXAMINATION 2023-24**  
**CELL AND MOLECULAR BIOLOGY**

**TIME: 3 HRS****M.MARKS: 75**

**Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief.**

**10 x 2 = 20**

a.	Classify RNA with their functions.
b.	Define meiosis.
c.	Define G2 phase of cell cycle.
d.	Write the functions of smooth endoplasmic reticulum.
e.	Write a note on nucleopore.
f.	Define transcription.
g.	Define genetic code.
h.	Define cell signaling.
i.	Define essential amino acids with examples.
j.	Write some chemical properties of proteins.

**SECTION B**

**2. Attempt any two parts of the following:**

**2 x 10 = 20**

a.	Describe the process of mitosis.
b.	How protein is synthesized in cell? Write the regulation of protein synthesis.
c.	Make a diagram of plasma membrane, write the channels present in plasma membrane.

**SECTION C**

**3. Attempt any five parts of the following:**

**7 x 5 = 35**

a.	Write a note on protein folding.
b.	Describe G1 (Restriction checkpoint).
c.	Give the structure of prokaryotic cell; write the advantages of prokaryotic cells.
d.	Describe cellular reproduction.
e.	Write the historical background of molecular biology.
f.	Write the properties of DNA.
g.	Write the principle and applications of transgenic animals.