PAPER ID-311143

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM VIII) THEORY EXAMINATION 2024-25
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.	Define genetics.
b.	Whatarethe functionsofDNA?
c.	What do you mean by transgenic?
d.	Give a suitable example to illustrate how RNA works.
e.	Enlist the function of tRNA and rRNA.
f.	Distinguish between mitosis and meiosis.
g.	Distinguish between prokaryotes and eukaryotes.
h.	Give brief introduction of molecular biology.
i.	Differentiate between active and passive transport across cell membrane
j.	Write the properties of cells.

SECTION B

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

a.	Explain the cell cycle analysis in detail. Highlight the check points in cell cycle.
b.	Describe the characteristics of the cell membrane and cellular reproduction in details.
c.	Describe the cell signals and explain the receptors for cell signals

SECTION C

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

a.	Discuss the types and function of protein kinase.
b.	What about the translation and transcription?
c.	Discuss DNA and the transfer of molecular information.
d.	Describe the importance of protein synthesis and the positive control.
e.	Review the protein pathway's regularities.
f.	Discuss the GPCR mechanism of cell signaling.
g.	What different cellular activities are there? Describe each checkpoint