PRN:	2385109171007	Course Code:	U21PC202

First Year B. Sc. End Semester Examination Summer 2024

Botany - II

Day and Date: 25 MAY 2024, Sat. Max Marks: **35**

Time: 10:30 to 12:30 pm Duration: **02 hrs**

Instructions: 1) All questions are compulsory.

2) Draw well labelled diagram wherever necessary.

			Marks	Bloom's Level	CLO
Q.1		**Attempt the following**	**07**		
	a)	What is the function of cell membrane in the Cell?	01	L1	1
	b)	What are the functions of Mitochondria?	01	L1	1
	c)	Illustrate the Metaphase.	01	L2	2
	d)	Give a definition of microscopy and the formula of resolution.	02	L1	3
	e)	What is the fundamental mechanism of chromatography?	02	L1	4
Q.2		**Attempt the following**	**07**		
	a)	What makes a prokaryotic cell different from a eukaryotic one?	04	L1	1
	b)	Draw and label the structure of Prokaryotic cell.	03	L2	1
		OR			
	c)	'Cell as a biochemical entity' explain.	03	L2	1
Q.3		**Attempt the following**	**07**		
	a)	Explain the ultrastructure of Mitochondria.	04	L1	1
	b)	Draw and label the structure of Chloroplast	03	L2	1
		OR			
	c)	Functions of Endoplasmic reticulum.	03	L1	1

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Q.4	**Attempt the following**	**07**		
a)	What is the significance of cell cycle?	03	L1	2
b)	Explain the significance of Mitosis.	04	L1	2
	OR			
c)	Explain the Principles and Applications of Chromatography.	04	L3	4
Q.5	**Attempt the following**	**07**		
a)	What are the applications of Light microscopy?	03	L3	3
b)	Describe principle of Microscopy.	04	L1	3
	OR			
c)	Draw a diagram of thin layer chromatography and give the applications of TLC.	04	L2	4

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