

SHRI RAMSWAROOP MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

B. Sc. (Hons.) Biotechnology – I Year (I Sem)

Course Name: Cell Biology

Code: BSB1702

Time: 02 Hours

Max Marks: 60

University Roll No.

(To be filled by the Student)

Note: Please read instructions carefully:

- The question paper has 03 sections and it is compulsory to attempt all sections.
- All questions of Section A are compulsory; questions in Section B and C contain choice.

Section A: Very Short Answer type Questions		BL	CLO	Marks (10)
Attempt all the questions.				
1.	What is carcinogenesis?	BL1	CLO4	02
2.	Identify the function of extracellular matrix.	BL3	CLO3	02
3.	Compare plant cell with the animal cell.	BL2	CLO1	02
4.	Define the suicidal bags of a cell.	BL1	CLO3	02
5.	Distinguish between heterochromatin and euchromatin.	BL4	CLO2	02
Section B: Short Answer Type Questions		BL	CLO	Marks (30)
Attempt any 03 out of 06 questions.				
1.	Outline the process of meiosis with the help of well labelled diagrams.	BL2	CLO1	10
2.	Describe the structure and function of nucleus.	BL2	CLO3	10
3.	Discuss the chemical constitution of plasma membrane and its role in the maintenance of stability of plasma membrane.	BL2	CLO1	10
4.	Explain briefly about the membrane receptors with major emphasis on their types and function.	BL5	CLO4	10
5.	Discuss briefly structure and function of mitochondria.	BL6	CLO2	10
6.	Describe the structure and function of ribosomes with an emphasis on their role in protein synthesis.	BL2	CLO3	10

Section C: Long Answer Type Questions/Case Study		BL	CLO	Marks
Attempt any 01 out of 03 questions.				(20)
1.	Describe the structure and function of golgi complex with the help of a labelled diagram.	BL2	CLO2	20
2.	Discuss the cytoskeleton of the cell with major emphasis on its components and their function.	BL2	CLO1	20
3.	Explain signal transduction and its molecular mechanism.	BL5	CLO4	20
