SHRI RAMSWAROOP MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

M.Sc. (Bio-Technology) I Year (I Sem)	
Course Name: General Microbiology	**Code: MSB1007**
Time: 02 Hours	**Max Marks: 60**

University Roll No.															
(To be filled by the Student)															

Note: Please read instructions carefully:

a) The question paper has 03 sections and it is compulsory to attempt all sections.

b) All questions of Section A are compulsory; questions in Section B and C contain choice.

Section A: Very Short Answer type Questions **Attempt all the questions.**		**BL**	**CLO**	**Marks (10)**
1.	Who is the Father of Modern Microbiology, and what are his important contributions?	BL1	CLO1	02
2.	Contrast pilli and fimbriae in bacteria, and write their functions.	BL2	CLO2	02
3.	Recall about chemoorganotrophic and photolithotrophic organism.	BL1	CLO3	02
4.	Classify various media used in microbiology.	BL4	CLO2	02
5.	What are transposable elements in bacteria?	BL1	CLO3	02
Section B: Short Answer Type Questions **Attempt any 03 out of 06 questions.**		**BL**	**CLO**	**Marks (30)**
1.	Explain the identification of bacteria on the basis of morphology.	BL5	CLO1	10
2.	Discuss about the cell wall of Gram positive bacteria.	BL6	CLO2	10
3.	Categorize different types of transport system in bacteria.	BL4	CLO2	10
4.	Discuss about the purple sulfur bacteria and their photosynthesis.	BL2	CLO3	10
5.	What are the various phases in the growth curve of bacteria?	BL1	CLO3	10
6.	Show the process of generalized transduction in bacteria diagrammatically.	BL3	CLO3	10
Section C: Long Answer Type Questions/Case Study **Attempt any 01 out of 04 questions.**		**BL**	**CLO**	**Marks (20)**
1.	Discuss about different structures present external to cell wall of bacteria.	BL6	CLO1	20
2.	Explain the methods to control microbial growth by chemical agents.	BL5	CLO2	20
3.	Summarize different processes of bacterial reproduction.	BL5	CLO3	20
4.	Examine the importance of microorganisms used as experimental models.	BL4	CLO1	20
