

End Semester Examination (2021-22)-Odd Semester

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

Course Name: Biotechnology and Human Welfare

Code: BSB1801

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.	Define amplified fragment length polymorphism.	BL1	CLO3	02
2.	List any four features of human genome project.	BL1	CLO 4	02
3.	Define recalcitrant xenobiotic compounds.	BL1	CLO 2	02
4.	List the major advantages of focused mutagenesis in protein engineering.	BL1	CLO 1	02
5.	Name any two free living nitrogen fixing bacteria.	BL1	CLO 1	02
Section B: Short Answer Type Questions Attempt any 03 out of 06 questions.		BL	CLO	Marks (30)
1.	Discuss the characteristic features of live recombinant vaccines.	BL2	CLO 4	10
2.	Explain the physical evidence detected at undisturbed crime scene for forensic analysis.	BL2	CLO 3	10
3.	Describe the steps involved in transfer of specific gene into plants with the help of a bacterium.	BL3	CLO 1	10
4.	Illustrate the steps involved in ethanol production; support your answer with a flow chart.	BL3	CLO 1	10
5.	Describe the synthesis of PHB in bacterial system.	BL2	CLO 2	10
6.	Compare the function and structure of monoclonal and polyclonal antibody.	BL4	CLO 4	10
Section C: Long Answer Type Questions/Case Study Attempt any 01 out of 03 questions.		BL	CLO	Marks (20)
1.	Elaborate the principle, mechanism, and application of DNA fingerprinting.	BL6	CLO 3	20
2.	Explain the methodology involved in the development of different types of therapeutic agents.	BL5	CLO 4	20
3.	Summarize the role of decomposers in agriculture waste management.	BL5	CLO 1	20