

QP CODE: 25047373



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025**

**Third Semester**

M Sc BIOTECHNOLOGY

**Core Course - BT020301 - BIOPROCESS TECHNOLOGY**

2019 ADMISSION ONWARDS

71EB5229

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Why microbial isolation technique is significant?
2. What is enrichment media ?
3. What is solid state fermentation?
4. Mention any four aims of GLP?
5. What is a bubble column reactor?
6. What is DO Probe?
7. What is containment?
8. List out the sources of proteases.
9. Define leavening.
10. What is yogurt?

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Human microbiome project.
12. Write a note on conjugation.
13. Describe the features of batch culture.
14. Discuss the merits and demerits of immobilisation.
15. Comment on the types and features of nonnewtonian fluids.





16. List out 10 principles of GMP.
17. List out the names of administrations of IPRs in India.
18. Outline the recovery steps of ascorbic acid.

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Explain the preservation and maintenance of industrially important microorganism.
20. Illustrate the transfer of oxygen from medium to the cell. Write sulphite oxidation technique.
21. Describe different methods of downstream processing.
22. Elaborate on fermentative production of acetone and butanol.

(2×5=10 weightage)

