



QP CODE: 25022346

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# M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025

#### **Third Semester**

M.Sc BIOTECHNOLOGY

#### **CORE - BT020301 - BIOPROCESS TECHNOLOGY**

2019 ADMISSION ONWARDS

907E2FB6

Time: 3 Hours Weightage: 30

#### Part A (Short Answer Questions)

Answer any **eight** questions.

Weight **1** each.

- 1. What are industrially important microorganism?
- 2. What is defined media.?
- 3. Write the Monod equation and explain the terms.
- 4. Mention any four aims of GLP.
- 5. Differentiate between laminar and turbulent flow.
- 6. Define GMP.
- 7. List out physical containment in a laboratory.
- 8. Write down the culture media used for phenyl alanine production.
- 9. Liist out the strains used for streptomycin production.
- 10. What is butter milk?

(8×1=8 weightage)

### Part B (Short Essay/Problems)

Answer any **six** questions.

Weight **2** each.

- 11. What are auxotrophic mutants. write the significance.
- 12. Why do we preserve microorganism?
- 13. List out the merits of solid state fermentation.



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- 14. Describe the methods used for immobilisation.
- 15. Write notes on the aerator systems in reactors.
- 16. Explain the working of DO probe.
- 17. Name the informations associated with a patent application.
- 18. Outline the steps involved in the product recovery of citric acid.

(6×2=12 weightage)

## Part C (Essay Type Questions)

Answer any **two** questions.

Weight **5** each.

- 19. Explain microbial multi- omics analysis.
- 20. Discuss the different types of bioreactors you have studied.
- 21. Describe different methods of downstram processing.
- 22. Write an essay on Single cell protein production.

(2×5=10 weightage)

