



QP CODE: 24026956



24026956

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2024**

Third Semester

B.Sc Microbiology Model III

Core Course - MB3CRT07 - INDUSTRIAL MICROBIOLOGY

2017 Admission Onwards

C8C46646

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Cite about Recombinant products.
2. Make a note on Secondary metabolites.
3. Define Screening.
4. What is meant by non Newtonian fluid?
5. Write the importance of Vitamins in media.
6. What are inducers in media and give examples?
7. List the methods of solid liquid separation.
8. Compile a note on proteases.
9. Prepare the note on product recovery step of lysine.
10. Explain the Disadvantage of enzyme entrapment.
11. Differentiate between Trade marks and trade secret.
12. Explain Copyright.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain submerged fermentation with an example.
14. Explain the application of recombinant DNA technology in strain improvement.
15. Explain the use of computer application in fermentation technology.
16. Describe the functions of impellers and their types.
17. Describe the importance and uses of sterilisation.
18. Describe continuous sterilization.
19. Discuss about the steps involved in recovery of citric acid production.
20. Discuss the commercial importance of antibiotics and amino acids.
21. What is immobilisation? Explain different applications.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Describe in detail the various techniques involved in primary and secondary screening.
23. Write an essay on the working process of a fermenter
24. Assess the different varying parameter regulatory system in fermenter and give reasons for their fluctuation.
25. Write an essay on different methods of Immobilisation and state the advantage and disadvantage of each one.

(2×15=30)

