

M.Sc DEGREE EXAMINATION, APRIL 2019
II Year IV Semester
Plant Biotechnology

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Synthetic media
2. Bioreactor
3. Vitamins
4. Interferon
5. Apoenzyme
6. Microencapsulation
7. Streptomycin
8. Lactic acid
9. Beverage
10. Cheese
11. Lysine
12. Insulin

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Describe any two media for industrial fermentation.
14. Bring out the techniques for recombinant insulin production.
15. Enumerate the source of enzymes.
16. Write note on a) Ethanol b) Citric acid.
17. Describe the production process of yogurt.
18. Bring out the procedure for sterilization.
19. Write about the therapeutic uses of enzymes.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Explain packed bed and airlift Bioreactor.
21. Describe the secondary metabolites by microbes.
22. Narrate the types of biosensors.
23. Comment on microbial production of penicillin.
24. Describe the production process of beer and wine.

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