

M.Sc.DEGREE EXAMINATION,APRIL 2020
II Year IV Semester
Plant Biotechnology

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Anti-foaming agents
2. Fermentation broth
3. Primary metabolites
4. Steroids
5. Microencapsulation
6. Gel filtration chromatography
7. Anaerobic respiration
8. Streptomycin
9. Yogurt
10. Malting
11. Autoclaving
12. Biosensor

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

Answer any **FIVE** questions

13. Draw a neatly labelled diagram of fermenter.
14. Write in brief about the secondary metabolites in plants.
15. What are the methods of enzyme immobilization?
16. Discuss the fermentation process involved in the production of glutamic acid.
17. Write a note on fermented foods and enlist its advantages.
18. How ethanol is commercially produced?
19. Production of recombinant interferons – Discuss.

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

Answer any **THREE** questions

20. Write an essay on the types of bioreactors used in bioprocess technology.
21. Diabetes mellitus and production of recombinant insulin – Discuss.
22. Write an essay on the production of microbial enzymes.
23. Elaborate on the production process and uses of citric acid.
24. Explain in detail about the steps involved in the production process of wine.

M.Sc.DEGREE EXAMINATION,APRIL 2020
II Year IV Semester
Plant Biotechnology

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Anti-foaming agents
2. Fermentation broth
3. Primary metabolites
4. Steroids
5. Microencapsulation
6. Gel filtration chromatography
7. Anaerobic respiration
8. Streptomycin
9. Yogurt
10. Malting
11. Autoclaving
12. Biosensor

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

Answer any **FIVE** questions

13. Draw a neatly labelled diagram of fermenter.
14. Write in brief about the secondary metabolites in plants.
15. What are the methods of enzyme immobilization?
16. Discuss the fermentation process involved in the production of glutamic acid.
17. Write a note on fermented foods and enlist its advantages.
18. How ethanol is commercially produced?
19. Production of recombinant interferons – Discuss.

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

Answer any **THREE** questions

20. Write an essay on the types of bioreactors used in bioprocess technology.
21. Diabetes mellitus and production of recombinant insulin – Discuss.
22. Write an essay on the production of microbial enzymes.
23. Elaborate on the production process and uses of citric acid.
24. Explain in detail about the steps involved in the production process of wine.