

B.Sc DEGREE EXAMINATION, APRIL 2019
III Year VI Semester
Plant Biotechnology

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Autoclave
2. Callus
3. Cytoplasmic hybrid
4. Karyoplast
5. Micropropagation
6. Somatic hybrid
7. Microbial Growth
8. Fermentation
9. Restriction Enzyme
10. Plasmid
11. Biofertilizer
12. Somaclone

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

Answer any **FIVE** questions

13. Write an account on sterilization.
14. Write short notes on Synthetic seeds.
15. Describe different methods of Micropropagation.
16. List out the requirements of microbial growth.
17. Give an account on alkaloid production in plants.
18. Describe the mass cultivation of *Rhizobium*.
19. Give a brief account on embryo culture.

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

Answer any **THREE** questions

20. Describe the various advancements of biotechnology.
21. Describe in detail the isolation and fusion of protoplast and their advantages.
22. What is anther culture? Briefly explain the factors influencing anther culture and its applications.
23. Write an essay on the various types of bioreactors used in fermentation.
24. Write about the aims and techniques of gene manipulation in eukaryotic cells.

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