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Name.....

Reg. No.....

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2024

(CBCSS—UG)

Biotechnology

BTY 6B 13—PLANT BIOTECHNOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Answer any ten questions.**Each question carries 2 marks.*

1. Gene Technology act.
2. Cryoprotectant.
3. Cybrids.
4. Somatic embryogenesis.
5. Micropropagation.
6. GATT.
7. Heterokaryon.
8. GM crop.
9. Genes sanctuaries.
10. Organ culture.
11. Baculovirus.
12. Greenhouse technology.

(10 × 2 = 20 marks)

Section B (Paragraph Type Questions)*Answer any six out of seven.**Each question carries 5 marks.*

13. Soma clonal variation and its importance in plant tissue culture.
14. Use of protoplast for genetic transformation.

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15. Give an account on plant cell suspension culture.
16. Explain micropropagation is a clonal propagation.
17. Explain the role of growth regulators in plant tissue culture.
18. Write note on Bioethics and IPR in Plant biotechnology.
19. Describe different methods for protoplast fusion.

Section C (Essay Type Questions)

Answer any one, which carries 10 marks.

20. What are the different methods of gene delivery into plant cells for the production of transgenic plants?
21. Discuss plant protoplast isolation and Culture methods.