

C 40503

(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2023

(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. Zeatin.
2. Somaclones.
3. Meristem culture.
4. Sodium hypochlorite.
5. Flavor sour tomato.
6. Binary vector.
7. Trade mark and Copy write.
8. MS medium.
9. Cytodifferentiation.
10. Nurse culture technique.
11. Chemofusion.
12. Neomycin phosphotransferase gene.

(10 × 2 = 20 marks)

Section B (Paragraph Type Questions)

*Answer any **six** out of seven.*

Each question carries 5 marks..

13. Growth regulators in plant tissue culture.
14. Surface sterilization of explant.
15. Explain callus culture and its applications.
16. Explain soma clonal variation and its application.
17. Brief account on Gene bank.
18. Hairy root culture and possible applications.
19. Explain cryotherapy and thermal therapy for the production of virus free plant.

(5 × 6 =

Section C (Essay Type Questions)

*Answer any **one** question*

The question carries 10 marks.

20. Explain plant protoplast isolation, culture and fusion methods
21. Describe different methods of micropropagation.

(1 × 10 =