



QP CODE: 21101098



21101098

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, APRIL 2021

Sixth Semester

B.Sc Biotechnology Model III

CORE - BT6CRT15 - PLANT BIOTECHNOLOGY

2017 Admission Onwards

63EC18EC

Time: 3 Hours

Max. Marks : 60

Part A

Answer any ten questions.

Each question carries 1 mark.

1. Describe about Refrigerator in plant tissue culture lab.
2. Define green house in plant tissue culture lab.
3. Name any two popular plant tissue culture media.
4. What is meant by macronutrients?
5. What is meant by cytodifferentiation?
6. Write about Oraganogenesis.
7. What are the gelling agents of artificial seeds?
8. Explain Feederlayer culture.
9. Experiment used for inter specific transfer of chloroplast.
10. Define germplasm storage .
11. Discuss about glyphosate resistance.
12. Judge the role of TMV in gene transfer.

(10×1=10)

Part B

Answer any six questions.

Each question carries 5 marks.

13. List out the set of instruments for tissue culture work.





14. Evaluate the importance of Hardening centre in plant tissue culture.
15. What are the advantages and disadvantages of micropropagation?
16. Describe the isolation of somaclonal variation.
17. Explain the procedure of meristem culture.
18. Write a short note on ovary culture and its uses.
19. Explain regeneration of hybrid plant.
20. Discuss about T DNA.
21. Distinguish between co. integrate and binary vector system.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the different types of plant growth hormones and their role in plant tissue culture?
23. Describe callus culture, its procedure and uses.
24. Explain Germplasm conservation and gene bank
25. Judge the role of agrobacterium tumifaciens in plant transgenics.

(2×10=20)

