



QP CODE: 20100505

Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, MARCH 2020

Sixth Semester

Core course - BO6CRT12 - BIOTECHNOLOGY AND BIOINFORMATICS

B.Sc Botany Model I, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Environmental
Monitoring And Management, B.Sc Botany Model II Plant Biotechnology

2017 Admission Onwards

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Time: 3 Hours

Marks: 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Name a synthetic auxin.
2. How can you sterilize the medium?
3. Comment on subculture.
4. What you meant by secondary metabolites?
5. Name a bead of gel that contains a somatic embryo.
6. Expand Ti plasmid.
7. What is agarose gel electrophoresis?
8. Which temperature range is used in refrigerated centrifuges?
9. What is the use of gel documentation system?
10. What is meant by HGP?
11. Expand BLAST.
12. Define molecular phylogeny.

(10×1=10)



Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a note on meristem culture and its significance.
14. What is embryo culture? Write down its applications.
15. Write down the uses of haploid plants.
16. What is the significance of protoplast cultures?
17. Write notes on the scope and relevance of gene therapy.
18. List the practical applications of autoradiography.
19. Give an account of genomics.
20. Describe various thrust areas of bioinformatics.
21. Explain molecular visualization using RasMol.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Give an account on various aseptic techniques used in plant tissue culture.
23. Describe the features of different vectors used in genetic modification.
24. Describe the steps in PCR.
25. Describe briefly various protein databases.

(2×10=20)

