

Q. P. Code: 6BO4

BHARATA MATA COLLEGE, THRIKKAKARA
MODEL EXAMINATION FEBRUARY 2020
B.Sc BOTANY Semester VI
BIOTECHNOLOGY & BIOINFORMATICS

TIME: 3 Hrs

Max. Marks: 60

Section A

Answer any ten (Each question carries 1 mark)

1. What callus?
2. Name two protein databases.
3. What is a bioreactor?
4. What are cosmids?
5. What is Ti plasmid?
6. What are artificial seeds?
7. Expand DDBJ.
8. What is hardening.
9. What is pBR³²²?
10. What is cell immobilization ?
11. What are ligases?
12. Name a molecular visualization tool.

(10 x 1 = 10)

Section B

Answer any six (Each question carries 5 marks)

13. Explain NCBI
14. Distinguish between redifferentiation and dedifferentiation.
15. Write a note on RASMOL
16. Explain stages of micropropagation
17. Briefly explain invitro production of secondary metabolites
18. Give a brief account of restriction endonucleases.
19. Write the differences between blunt end cutting and staggered cutting.
20. What are the applications of protoplast culture
21. What is MS medium? How is it prepared?

(6 x 5 = 30)

Section C

Answer any two (Each question carries 10 marks)

22. Explain the components of a tissue culture medium.
23. Give an account of achievements of recombinant DNA technology.
24. Explain RASMOL.
25. Explain PCR and its applications.

(2 x 10 = 20)

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