

APRIL 2017

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Time : Three hours

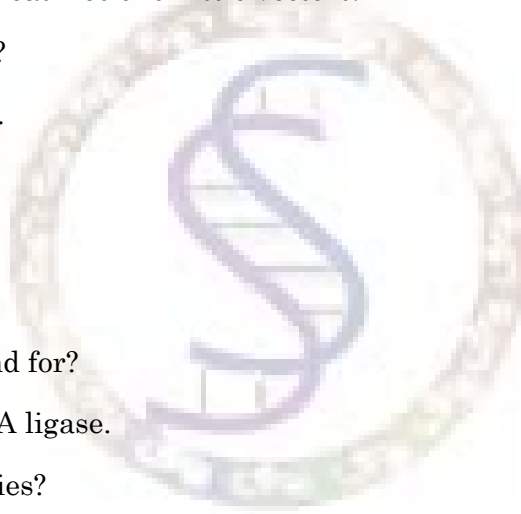
Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer any TEN questions.

(Each question carries 1 mark)

1. Define isochizomers.
2. Name the enzyme used for preparing homopolymer tails.
3. Define cloning
4. List out the distinctive features of shuttle vectors.
5. What does IPR refer to?
6. Define-primary culture.
7. What is callus?
8. What does Ri refer to?
9. Define proteomics.
10. What does MALDI stand for?
11. Mention the role of DNA ligase.
12. What are inclusion bodies?



PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

(Each question carries 5 marks)

13. What is replica plating?
14. Write a note on protein purification using tags.
15. Give an account of SV 40 virus.
16. Elaborate the protoplast culture.
17. Write a note on Human Genome project
18. Give an account on issues associated with genetically modified crops.
19. Elaborate on transgenic animals.

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions.

(Each question carries 10 marks)

20. Explain in detail about DNA sequencing techniques.
21. Give an account on construction of genomic library.

22. Elaborate the animal cell culture.
23. Explain the procedures for introducing pest resistance in plants.
24. Elaborate on phylogenetic tree construction.
25. Give an account on DNA micro array.

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