



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SECOND SEMESTER – APRIL 2023

16/17/18UZO2MC03 – FUNDAMENTALS OF BIOTECHNOLOGY

Date: 13-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART – A

Answer All questions

(10x2=20 Marks)

Define

1. Cosmid.
2. Cell line.
3. Vector.
4. Reverse transcriptase.
5. Transposons.
6. Endonuclease.
7. Explant.
8. Copyright.
9. Gene cloning.
10. Organogenesis.

PART - B

Answer any FOUR Questions

(4 x 10 = 40 Marks)

11. Write a note on general structure of a plasmid and its applications.
12. Explain briefly the mechanism and applications of cryopreservation.
13. Write a note on biosensors.
14. Write a note on the role of IPR in Biotechnology.
15. Write briefly about GMOs and list out the benefits.
16. List out the types of animal cell culture media and the uses.

PART - C

Answer any TWO Questions

(2 x 20 = 40 Marks)

17. Write a detailed note on rDNA technology and the types of enzymes used.
18. Summarize the scope and importance of Biotechnology.
19. Explain the structure and types of bioreactors.
20. Explain animal cell culture techniques and its applications.

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