



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

**FOURTH SEMESTER – APRIL 2018**

**16PZO4MC02- BIOTECHNOLOGY**

Date: 20-04-2018  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**PART-A**

Answer **All** the following Questions

**(10X2=20)**

1. What are GMOs?
2. Comment on Cosmids.
3. Note on Bt-Cotton.
4. Remarks on Probe
5. Short note on Polylactides.
6. Define gene therapy.
7. List the functions of Trademark.
8. Differentiate YAC and BAC.
9. Define Cryobiology.
10. What do you mean by Phytoremediation?

**PART-B**

Answer **Any FOUR** of following Questions

**(4X10=40)**

11. Elaborate the types of Enzymes and its role in rDNA Technology
12. Explain the structure of pBR322 with suitable illustration.
13. Describe the Mechanism and Application of Cryopreservation.
14. Write a note on PCR and its application.
15. Briefly discuss the role and functions of IPR in Biotechnology.
16. What is Bioleaching and explain the process involved in Microbial Leaching of Hazardous waste?

**PART-C**

Answer **Any TWO** of the following Questions

**(2X20=40)**

17. Explain the categories of Blotting technique and list out its applications in rDNA technology.
18. Discuss the role of Hormones in Medical treatments.
19. Justify with relevant examples that “Biotechnology is a boon to Productivity”.
20. Give a detailed note on the Classification, Properties and application of Biopolymers.

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