

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



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**SECOND SEMESTER – NOVEMBER 2016**

**AZ 2506/AZ 1505/AZ 1502 – BASIC BIOTECHNOLOGY**

Date: 14-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**PART – A**

Answer ALL Questions

(10 x 2 = 20 marks)

1. Define IPR.
2. Define cell line.
3. Comment on Organ culture.
4. What are Cosmids?
5. Define Plasmids.
6. What cDNA.
7. Define fermentation.
8. What are Biosensors?
9. Define GMO's.
10. What are Transgenic fishes?

**PART – B**

Answer any FOUR questions.

(4 x 10 = 40 marks)

11. Explain cryopreservation.
12. What are transposons? State their importance.
13. What are restriction enzymes? Explain.
14. What is Molecular cloning?
15. Propose a bioreactor design.
16. Give an account on genetic manipulation.

**PART – C**

Answer any TWO questions.

(2 x 20 = 40 marks)

17. Give an account on application of animal tissue culture.
18. How do you construct of genomic library?
19. Elucidate applications of biotechnology in aquaculture.
20. Discuss the role of biotechnology in agriculture.

\*\*\*\*\*