

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



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

**FIFTH SEMESTER – NOVEMBER 2016**

**AZ 5519/AZ 5515/AZ 5508 – ANIMAL BIOTECHNOLOGY**

Date: 07-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART-A**

(10x2=20)

Answer ALL questions

1. Write the procedure to prepared Culture medium.
2. What is Organ culture?
3. Define Liposomes.
4. What are Biolistic?
5. Explain Super mouse.
6. List out the transgenic fishes.
7. Define Gene therapy.
8. What are Monoclonal antibodies?
9. Elaborate the significance of Vaccine.
10. Explain Genetic engineering.

**PART-B**

(4x10=40)

Answer any FOUR questions.

11. Describe the steps involved in tissue culture.
12. Give an account on DNA micro arrays.
13. What is molecular farming? Explain.
14. List out the application of molecular markers.
15. Explain briefly steps involved in DNA finger printing.
16. What are the socio ethical problems due to animal genetic engineering?

**PART-C**

(2x20=40)

Answer any TWO questions.

17. Give a detailed account on stem cells and its application.
18. Explain in detail the methods of transfection.
19. Write an essay on human genome project.
20. Give a detailed account on transgenic animals and its application.

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