



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2017

AZ 5519- ANIMAL BIOTECHNOLOGY

Date: 26-04-2017
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART – A (10 x 2 = 20 marks)

Answer ALL questions. All questions carry equal marks.

Define / Explain the following:

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| 1. Synthetic media | 6. Knock – out mice |
| 2. Organ Culture | 7. Molecular markers |
| 3. Liposomes | 8. RFLP |
| 4. Electroporation | 9. Gene therapy |
| 5. Transgene | 10. Ethical implication in Biotechnology |

PART – B (4 x 10 = 40 marks)

Answer any FOUR questions. All questions carry equal marks.

11. Write the steps involved in cultivation of animal cell in bioreactor.
12. Explain the DNA microarray Technique.
13. Describe the molecular farming.
14. Describe the Monoclonal antibodies
15. Write the recent trends in animal biotechnology.
16. Write the socio ethical problems due to animal genetic engineering.

PART – C (2 x 20 = 40 marks)

Answer any TWO questions. All questions carry equal marks.

17. Write an essay on stem cells and its applications.
18. Describe the methods of gene transfer system
19. Explain the concept of Transgenesis and illustrate Transgenic animals in animal Biotechnology for human welfare.
20. Describe the Human genome project
