

M.Sc. DEGREE EXAMINATIONS - MARCH 2016
IV SEMESTER
Zoology
PAPER I – ANIMAL BIOTECHNOLOGY

45101

Time: 3 Hours

Max. Marks: 75

(No additional sheet will be supplied)

PART - A (5 x 3 = 15 marks)

Answer any FIVE Questions

Each question carries 3 marks

Each answer should not exceed 1 page

1. Restriction Endonucleases
2. Fluorescence in-situ hybridization
3. Hybridoma technology
4. Adenosine deaminase deficiency disease
5. Embryo transfer technology
6. Transgenic animals
7. Biotechnological approaches in Poultry industry
8. Production of Growth hormone

PART -- B (4 x 15 = 60)

Answer ALL questions

Each question carries 15 marks

Each answer should not exceed 6 pages

9. Discuss the achievements of biology in various fields.
(Or)
10. Give a detailed account on enzymatic in gene cloning.
(Or)
11. What is cell culture? Write the applications of cell culture.
(Or)
12. What is gene transfer? Explain about different methods involved in gene transfer technology.
13. What is molecular pharming? Give an account on transgenic animals in used as models for human diseases.
(Or)
14. Explain in detail the biotechnological approaches in Sericulture industry.
15. Comment on biotechnological methods employed in Aquaculture industry.
(Or)
16. Explain the preparation of cell line for cell culture. Add a note on different types of cell lines.

