

45101

M.Sc. DEGREE EXAMINATION, APRIL 2015.

FOURTH SEMESTER

Zoology

Paper I — ANIMAL BIOTECHNOLOGY AND MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Membrane filtration.
2. Lactose.
3. DNA.
4. Gram's staining.
5. Antibodies.
6. Polymerases.
7. Vinegar.
8. Haemophilia.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Give a detailed account on viral vectors used in gene cloning.

Or

10. What is biotechnology? Give an account on the achievements of biotechnology.

11. Describe the Embryo transfer technology.

Or

12. Give an account on application of biotechnology in medicine.

13. Write an essay on microbial flora of human intestine and stomach.

Or

14. Write an essay on fungal diseases and their control.

15. Describe microorganisms as source of food.

Or

16. Give an account on industrial production of lactic acid.

