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M.Sc. DEGREE EXAMINATION, MARCH/APRIL 2019.

FOURTH SEMESTER

Biotechnology

Paper II — ANIMAL BIOTECHNOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Culture vessels.
2. Role of serum.
3. Passage number.
4. Batch culture.
5. Embryonic stem cells.
6. Human disease genes.
7. DPT vaccine.
8. Seed production.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Elaborate on historical developments of animal cell culture.

Or

10. Describe the sources of tissues and its types.
11. Discuss the mechanical and enzymatic mode of desegregation.

Or

12. What are the steps involved in the scale-up of animal cell culture?

13. Give a detailed account on transgenic animals.

Or

14. Explain the significance of human genome project.

15. Outline the concepts of tissue engineering.

Or

16. Write an essay on pearl culture.

