25083

M.Sc. DEGREE EXAMINATION, APRIL 2015.

SECOND SEMESTER

Biotechnology

Paper III —IMMUNOLOGY

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. Isohaemagglutins
2. T- lymphocytes
3. Adjuvants
4. Antigen-antibody interactions
5. Western blotting
6. Major histocompatibility complex
7. Cell mediated immunity
8. Biotechnological vaccines

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Give an account on primary and secondary organs of immune system?

Or

10. Explain different types of immunity?

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11. What are monoclonal antibodies and give an account of the production and applications of monoclonal antibodies?

Or

12. Describe the classification and types of immunoglobulins?

13. Explain different labeled antibody techniques?

Or

14. Give an account of principles and applications of serological tests?

15. Define complement and explain the complement pathway that destroy the antigen?

Or

16. Write about immune deficiency diseases?

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