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T – 6601

Reg. No. :

Name :

Fourth Semester M.Sc. Degree Examination, July 2024

Biotechnology

BT 401 : IMMUNOLOGY

(2018 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

SECTION – A

I. Answer any **two** of the following.

1. Describe the structure and function of Immunoglobulin A.
2. Explain Type I Hypersensitivity Reaction.
3. Differentiate between Tumour Associated Antigens and Tumour Specific Antigens? Give two examples each.

(2 × 15 = 30 Marks)

SECTION – B

II. Answer any **nine** of the following.

4. What is Passive Immunity? Mention its significance.
5. What are complete antigens? Mention the characteristics for a complete antigen.
6. Briefly explain Graft Versus Host Disease.

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7. What is HLA typing? Why is it important during transplantation?
8. What are antigen presenting cells? Outline the mechanism of macrophage activation?
9. What is the mechanism of cell mediated cytotoxicity?
10. Outline the significance of TNF- alpha in immune system.
11. Describe the role of Interleukin – 6 in immune system.
12. Differentiate between complete adjuvant and incomplete adjuvant.
13. Differentiate between mesenchymal stem cells and pluripotent stem cells.
14. What is hybridoma technology? Mention its significance.
15. Briefly describe the principle of immunoelectrophoresis.

(9 × 5 = 45 Marks)

