

S.No. 3537

P 16 BC 31

(For candidates admitted from 2016–2017 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

Biochemistry

IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL the questions.

1. Define immunity.
2. What is meant by innate immunity.
3. Write about functions of B-cell antibody.
4. Define immune tolerance.
5. Write about the autoimmunity.
6. What causes hypersensitivity?
7. What is meant by genetically engineered antibodies?
8. Define active immunization.
9. Write the principles of immuno electrophoresis.
10. Define term in Abzymes.

SECTION B — (5 × 5 = 25)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Write about the humoral and cell mediated immunity.
Or
(b) Write on plasma cells.
12. (a) Explain the complement activation system.

Or

- (b) Give a short note on the cell mediated cytotoxicity.
13. (a) Give a note on auto immune diseases.
- Or
- (b) Elucidate the polymorphism of MHC genes.
14. (a) Write about the recombinant vector vaccines.
- Or
- (b) Give a short note on the monoclonal antibodies.
15. (a) Explain the immunoferritin technique.
- Or
- (b) Write about knockout mice cell culture system.

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

16. Explain briefly on the lymphatic system.
17. Discuss about the T-cell and B-cell functions.
18. Describe the transplantation types.
19. Explain briefly identification of lymphocytes and their subset in blood.
20. Give note on the immune electrophoresis technique.
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