

OCTOBER 2012

P/ID 40314/PZLK

Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 50 words.

1. Comment on the contributions of Edward Jenner.
2. Differentiate primary immune response and secondary immune response.
3. Comment on the significance of Lymph node.
4. What are mast cells?
5. Distinguish affinity from avidity.
6. What are adjuvants?
7. What is abnormal immunoglobulin?
8. Comment on the features of Feb region.
9. Mention the significance of Arthus reaction.
10. Comment on C566789.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Interpret the cells involved in cell mediated immunity.

Or

- (b) List down the historical perspectives of immunology.

12. (a) Characterize Granulocytes, its types and functions.

Or

- (b) Compare and contrast the features of T and B lymphocytes.

13. (a) Integrate the factors influencing immunogenicity.

Or

- (b) Analyse the properties of B cell episcopes.

14. (a) Define the hypothesis of Marrack's lattice and comment on its application.

Or

- (b) Analyse the principle and technique of hybridoma.

15. (a) Explain the alternate pathway of complement activation.

Or

- (b) What is the composition of complement? Comment on their properties.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Discuss the mechanism of humoral mediated immunity and its biological functions.

Or

- (b) Define and classify immunity. Discuss the non-specific immune mechanism of one body.

17. (a) Describe the structure and functions of primary lymphoid organ.

Or

- (b) Explain the structural organisation of lymphoid and its immunological functions.

18. (a) Point out the differences between T cell dependant antigen and T cell independent antigen with their properties.

Or

- (b) Interpret the properties of antigen and their types.

19. (a) Evaluate the organisation of MHC and its inheritance.

Or

- (b) Write an elaborate account on Cytokines that mediate immune response.

20. (a) Elucidate the mechanism of allograft rejection and comment on the factors favouring allograft succession.

Or

- (b) Outline the methodology of preparation of recombinant vaccines.
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