

MAY 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. Mention the four characteristics of adaptive immunity.
2. Comment on the contributions of E.Jenner.
3. Differentiate primary and secondary lymphoid organs.
4. What are phagolysosomes?
5. Differentiate antigens and allergens.
6. Mention the advantages of monoclonal antibodies.
7. What is atopic allergy?
8. Define Allotype.
9. Differentiate allografts from xenografts.
10. What are edible vaccines?

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Describe phagocytosis.
Or
(b) Describe inflammatory response.
12. (a) Describe the structure of thymus and mention the effects of thymectomy.
Or
(b) Write an account of Bursa of Fabricius.
13. (a) Discuss the role of haptens.
Or
(b) “All immunogens are antigens but not all antigens are immunogens” – Discuss.
14. (a) Describe the structure of human IgG. Molecule.
Or
(b) Comment on the clinical uses of mabs.
15. (a) Explain DTH reaction.
Or
(b) Present the alternate pathway of complement activation.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Explain ADCC reactions.
- Or
- (b) What is cell mediated immunity? Explain its role, with an example.
17. (a) List the cells of the immune system and explain their functions.
- Or
- (b) Describe the structure and function of any two secondary lymphoid organs.
18. (a) Explain the factors that determine immunogenicity.
- Or
- (b) Describe antigen recognition by B-cells and T-cells.
19. (a) How is antibody diversity generated? Explain.
- Or
- (b) Compare the antibody classes and their biological activities.

20. (a) Explain, how antigen-antibody interaction is used in diagnosis.

Or

(b) Describe the reactions in allograft rejection.
