APRIL 2018 **1709424/PBYA42A**

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer any TEN questions.

Each question carries 1 mark.

1. What is meant by innate immunity?
2. What are haptens? Explain.
3. What are monoclonal antibodies?
4. Define epitope.
5. What is meant by cross reactivity?
6. What is meant by opsonisation?
7. Mention any four enzymes used in ELISA.
8. Explain the events involved in primary immune response.
9. What are interferons?
10. What is meant by hypersensitivity?
11. Mention any four autoimmune diseases.
12. What is meant by graft Vs host reaction?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Write a note on Innate immunity.

14. What is phagocytosis? Discuss with a neat diagram.

15. Describe the role of MHC class I and class II molecules in the presentation of antigens.

16. Enumerate the characteristics of antigen-antibody reactions.

17. Describe the event that occur during secondary immune response.

18. Explain the different types of vaccines.

19. Explain the mechanism of hypersentivity type II reaction.

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions.

Each question carries 10 marks.

20. Give an account on the various types of cells that are involved in immune respose.

21. Define complement. Write briefly on the different pathways involved in the activation of complement.

22. Explain the structure and functions of antibodies.

23. Explain ELISA technique and give its biological applications.

24. What are the causes of autoimmune disorders and explain any two examples?

25. Explain the various immune reactions occurring during transplantation in the host.

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