APRIL 2017 **1708216/PBYA42A**

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer any TEN questions.

Each question carries 1 marks.

1. What is meant by immunity?

2. Write a note on toxoid vaccines.

3. Define an immunogen.

4. Define paratope.

5. Mention the fluorescent dyes used in immunofluorescence technique.

6. What is meant by cross reactivity?

7. Give the major types of epitopes of antigens.

8. Write any two applications of radioimmuno assay.

9. Give the non-specific cells of plasma that are involved in cell mediated immunity.

10. What are interferons?

11. Write a note on CD markers.

12. What is meant by a xenograft?

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Differentiate innate and acquired immunity.

14. Give an account on the various types of vaccines.

15. Explain the structure of IgM with a neat sketch.

16. Describe the biological consequences of complement.

17. Describe the principle of precipitation reaction.

18. Write a note on the antiviral immune mechanism of the human body.

19. Classify the different types of grafts.

SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions.

Each question carries 10 marks.

20. Write an account on humoral and cell mediated immunity.

21. Explain the organisation of major histocompatibility complex in human.

22. Explain RIA technique and give its biological applications.

23. Describe the events that occur during primary and secondary immune response.

24. Explain the aetiology of type I diabetes mellitus as an autoimmune disease.

25. Describe the consequences of events that occur during type II hypersensitive reaction.

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