

APRIL/MAY 2019

**BMB31 — IMMUNOLOGY**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. What is Coombs test?
2. Define Immunology
3. Comment on Lymphoid cells.
4. What is Innate immunity?
5. Define Hapten.
6. Define Antibody.
7. Comment on Polyclonal antibody.
8. Comment on DNA vaccines.
9. What is Precipitation.
10. Define Immunodiffusion.





SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL questions.

11. (a) List out Rh antigens. Add notes on their characteristics.

Or

- (b) Write an account on the following

- (i) Compatibility testing.
- (ii) Antibody screening.

12. (a) Write an account on the complement system.

Or

- (b) Write a detailed account on humoral immunity.

13. (a) Define adjuvant. Discuss in detail about their roles in immunology.

Or

- (b) Discuss briefly about the different classes of antibodies.

14. (a) Define immunization. Write a short account on Passive immunization.

Or

- (b) What is Hybridoma? How is it made? Explain it.

15. (a) Describe briefly about latex agglutination test.

Or

- (b) Write a short account on types of hypersensitivity.

SECTION C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Discuss in detail about the host-parasite relationships with suitable examples.

17. What is acquired immunity? Add notes on their types.

18. Define antigen. Discuss in detail about their properties, types and Determinants of antigenicity.

19. Write a detailed account on the following.

- (a) Attenuated vaccines.
- (b) Lymphokines.
- (c) Applications of monoclonal antibodies.

20. Discuss in detail about flow cytometry and fluorescence in diagnosis.

