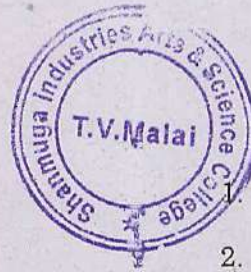


NOVEMBER/DECEMBER 2019

BMB31 — IMMUNOLOGY

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

Each answer not to exceed 50 words.

1. Exotoxin.
2. H - antigen.
3. Spleen.
4. Inflammation.
5. Superantigen.
6. Clonal selection theory.
7. Recombinant vaccine.
8. Cytokines.
9. Agglutination.
10. Hypersensitivity.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

Each answer not to exceed 200 words

11. (a) What is transfusion reaction? Add notes on its classification.

Or

- (b) Discuss briefly about common microbial infections with suitable examples.

12. (a) Write a detailed account on cell mediated immunity.

Or

- (b) Discuss briefly - about alternative complement pathway system.

13. (a) Write a detailed account on structure of antigen and its properties.

Or

- (b) Write a detailed account on Hapten and adjuvants in immunology.

14. (a) Write a brief account on macromolecules as vaccines.

Or

- (b) Define vaccine. Briefly describe and contrast active and passive immunization.

15. (a) Write an account on Radioimmunoassay.

Or

- (b) Define ELISA. Add notes on their types and applications.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

Each answer not to exceed 500 words.

16. Discuss in detail about milestones in the history of immunology.

17. Discuss in detail about the primary and secondary lymphoid organs of immune system.

18. What is immunoglobulin? Write a short account on its classes, properties and functions.

19. Define antibody. Discuss in detail about production and properties of monoclonal and polyclonal antibodies.

20. Discuss briefly about cytolytic and cytotoxic reactions of type III hypersensitivity reactions.

