

19. Write an essay on production of monoclonal antibodies. Add notes on their role in human welfare.
20. Define hypersensitivity. Discuss briefly about type III hypersensitivity reactions.
-

NOVEMBER/DECEMBER 2018

BMB31 — IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

Each answer should not exceed 50 words.

1. Rhesus (Rh) factor.
2. Cross matching.
3. Active immunity.
4. Phagocytosis.
5. Antigens.
6. Adjuvants.
7. Active immunization.
8. Hybridoma cell.
9. ELISA.
10. Serology.



SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

Each answer not to exceed 200 words.

11. (a) Historical overview of immunohematological science.

Or

- (b) Discuss in detail about ABO blood grouping system.

12. (a) Distinguish between specific immunity and nonspecific resistance.

Or

- (b) Discuss in detail about structure and functions of the following blood cells.

- (i) Dendritic cells
- (ii) Macrophages
- (iii) Monocytes.

13. (a) Discuss in detail about the different classes of antigens.

Or

- (b) Discuss briefly about natural selection theory of antibody formation.

14. (a) Define vaccine. Discuss briefly about advantages and disadvantages of genetically engineered vaccines.

Or

- (b) Differentiate between cytokines and lymphokines.

15. (a) Give a detailed account on immunoblotting assays in disease diagnosis.

Or

- (b) Give an account on latex agglutination test.

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

Answer any THREE questions.

Each answer not to exceed 500 words.

16. Write elaborately about different virulence factors found in bacteria and their role in pathogenicity.
17. Discuss in detail about Lectin complement pathway system.
18. Define antibody. Write a detailed account on their classes and functions.