

S.No. 1994

12UMB04

(For the candidates admitted from 2012–2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Fourth Semester

Microbiology

IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Father of Immunology.
2. Interferons.
3. Giant cells.
4. Differentiate primary and secondary lymphoid organs.
5. Hetrophile antigen.
6. Opsonization.
7. Complement fixation.

8. ELISA.
9. Immunohaematology.
10. Isoimmune reaction.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) List out the biochemical factors of innate immunity.

Or

- (b) Give an account of artificial passive immunity.

12. (a) What are B cells? Explain them with their types.

Or

- (b) Describe the structure of Thymus.

13. (a) Describe the structure of IgM.

Or

- (b) Explain the attractive pathway of complement system.

14. (a) Add a note Agglutination.

Or

- (b) Give a brief account of RIA.

15. (a) Write the mechanism of Type I hypersensitivity.

Or

- (b) Summarise the points in Type IV cell mediated immunity.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write the history of Immunology.

17. Differentiate T cells from B cells.

18. Elucidate the structure and properties of immunoglobulins.

19. Write an essay on Antigen-Antibody reactions.

20. Give an account of blood group systems and their application in medical field.