

APRIL/MAY 2019

**BBT41 — IMMUNOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.



Define innate immunity.

2. What is secondary immune response?
3. Write any two properties of B cell epitope.
4. What is secretory immunoglobulin?
5. Draw the structure of TCR.
6. What is IL- 1? Indicate its role.
7. What is graft Vs Host reaction?
8. Define cross matching.
9. Write the significance of Rh blood group.
10. Give an example of Type III hypersensitive reaction.



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

Answer ALL questions.

11. (a) Explain the role of Thymus in immunity.

Or

- (b) What are the characteristics features of antigens?

12. (a) Describe the structure of immuno globulins with a neat diagram.

Or

- (b) Write the properties of T cell epitope.

13. (a) How T cells are matured?

Or

- (b) What are T cell dependent and independent antigens?

14. (a) Explain the characteristic features of MHC II.

Or

- (b) Why is it necessary to carry out HLA typing?

15. (a) List out the medical application of blood transfusion.

Or

- (b) How blood groups are detected in laboratory?

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

Answer any THREE questions.

16. Discuss the structure and functions of cells involved in immune system.
17. Elaborate on the production and uses of Monoclonal Antibodies.
18. Describe the humoral mediated immune response.
19. Elaborate the types of autoimmunity and diseases.
20. Discuss the mechanism of type I Hyper sensitive reaction.