

NOVEMBER/DECEMBER 2019

**BBT41 — IMMUNOLOGY**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. What are PMNL cells?
2. Write the functions of monocytes.
3. What is Tcell epitope?
4. Define Tdependent antigens. Give examples.
5. What is hybridoma technology?
6. Write the functions of TNF.
7. What is autoimmunity?
8. Write the role of plasma cells.
9. What is micro toxicity test?
10. Write the symptoms of type II hypersensitive reaction.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Differentiate between innate and acquired immunity.

Or

- (b) Explain the mechanism of phagocytosis.

12. (a) Write the properties of Tcell epitopes.

Or

- (b) Outline the clinical uses of Mono clonal Antibodies.

13. (a) How Tcells are differentiated? Explain.

Or

- (b) How B cells are matured? Explain.

14. (a) Give a brief note on immunological tolerance.

Or

- (b) Describe the characteristic feature of MHC I.

15. (a) Discuss the mechanism of type IV hypersensitive reaction.

Or

- (b) What are the causes and symptoms of type II hypersensitive reaction.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the structure and function of spleen.
17. Describe the types of immunoglobulin with their biological functions.
18. Discuss the role of cytokines in Antibody mediated immune response.
19. Elaborate on the methods adopted in HLA typing.
20. Give a detailed note on Blood grouping and its application.
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