

Class-B.Sc. BT (II) yr
Subject – IMMUNOTECHNOLOGY
Paper- BT-5

Time Allowed : 3 Hrs

Maximum Marks : 40

Section – A

All questions are compulsory. Each question will carry one mark. Maximum length of answer can be about 1/3 page. (1×8)

1. (i) RIA
- (ii) Haemagglutination
- (iii) Intracellular and extracellular bacteria
- (iv) Influenza virus
- (v) Avidity
- (vi) Cell Mediated Immunity
- (vii) Naive and effector T-cells
- (viii) Name cytokines released by TH2 subset.

Section-B

5 Questions to be attempted and maximum length of answer can be upto two pages. Each question carries 4 marks (5×4=20)

2. Briefly discuss mechanism by which antigen induce T-cell activation.
3. Explain nature of T-dependent and T-independent antigens.
4. Write a note on Immunobiot.

5. Explain Haemagglutination Inhibition Assay.
6. Explain why for precipitation to occur, both antigen and antibody must be multivalent.
7. Discuss the mechanism of bacterial evasion of Host defense mechanisms.
8. Explain immunopathological consequences of parasitic infections.
9. Name and explain the mechanism involving cells presenting antigens to T-Helper cells.

Section-C

Two questions to be attempted. Max length of answer upto 5 pages. Each question carries 6 marks.

6×2=12

10. Describe the signaling pathway involved in thymus dependent antigenic activation.
11. Write about ELISA and its different types.
12. Explain single and double immuno diffusion technique.
13. Write about structure of Influenza virus and Immunity in Influenza.
