

B.Sc. (CBCS Pattern) Semester-VI  
**USMBT-14 - Microbiology Paper-II - Immunology**

P. Pages : 2

Time : Three Hours



**GUG/S/25/13334**

Max. Marks : 50

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1. Explain structure and function of primary lymphoid organs. 10

**OR**

a) Write a note on MALT. 2½

b) Compare B cell & T cell with reference to its functions. 2½

c) Add a note on APC. 2½

d) Write a note on lymph node. 2½

2. What is innate immunity? Explain mechanism of innate immunity with reference to biochemical factors. 10

**OR**

a) Describe the steps involved in phagocytosis. 2½

b) Write a note on active immunity. 2½

c) Give the characteristics of cell mediated immunity. 2½

d) Discuss factors influencing innate immunity. 2½

3. What is Antibody? Explain general structure of Antibody with well labelled diagram. 10

**OR**

a) State the factors determining Antigenicity. 2½

b) Explain Principal of ABO blood group testing. 2½

c) Write a note on ELISA. 2½

d) Discuss the mechanism of Radioimmunoassay Test. 2½

4. What is hypersensitivity? Describe mechanism of Type-II hypersensitivity. 10

**OR**

a) Explain autoimmune disorders. 2½

b) What is delayed hypersensitivity. 2½

- c) Discuss mechanism of Mantoux test. 2½
- d) Discuss the mechanism of Erythroblastosis fetalis. 2½

**5. Solve any ten. (1 Mark Each) 10**

- a) What is GALT?
- b) What are the functions of Macrophages.
- c) What are NK cells?
- d) What is racial immunity?
- e) What is cell mediated immune response?
- f) What are the functions of MHC?
- g) What is the function of IgA?
- h) What is epitope?
- i) Which enzymes are used in ELISA?
- j) Coombs' test is used for?
- k) Which antibody is responsible for allergic reaction?
- l) Give the examples of two autoimmune disorders.

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