B.Sc. (CBCS Pattern) Sem-VI

USMBT-14 - DSE-II : Microbiology Paper-II : Immunology

P. Pages : 2 **GUG/W/22/13334**

Time : Three Hours * 0 6 2 5 * Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.

1. Describe the structure and function of secondary lymphoid organs. **10**

OR

a) Describe the various types of T – lymphocytes **2½**

b) Write a note on MALT. **2½**

c) Describe the structure and function of granulocytes and agranulocytes. **2½**

d) Describe the role of antigen presenting cells in immunity. **2½**

2. Describe the second line of defensive mechanism of immunity. **10**

OR

a) Write a note on MHC molecules. **2½**

b) Give the difference between active and passive immunity. **2½**

c) Discuss the factors influencing Innate Immunity. **2½**

d) Write in brief about humoral immune response **2½**

3. Describe mechanism and applications of precipitation reaction in serology **10**

OR

a) Explain how antigenicity is determined on the basis of chemical nature and size. **2½**

b) Describe the structure and function of IgG. **2½**

c) Write a note on Immuno -fluorescence technique used in tagged antibody test. **2½**

d) Describe the mechanism of ‘wassermann test’. **2½**

4. Describe the mechanism of Type – I hypersensitivity **10**

OR

a) Write a note on – immunological tolerance. **2½**

b) Describe the mechanism of ‘Mantoux test’. **2½**

c) Write a note on – Rheumatoid arthritis **2½**

d) Describe the mechanism of Arthus reaction. **2½**

5. Attempt **any ten**.

a) What is GALT? **1**

b) What are NK cells? **1**

c) Write the function of macrophages **1**

d) What is species immunity. **1**

e) What is Immunity. **1**

f) What is passive natural immunity. **1**

g) What is epitope? **1**

h) Name the immunoglobulin which is secretory in nature. **1**

i) Name any one immunofluorescence dyes. **1**

j) Define hypersensitivity. **1**

k) What are Neo antigens **1**

l) Name any two autoimmune disorders **1**

****