

B.Sc. CBCS Pattern Semester-VI
USMBT-14 - Microbiology Paper-II : Immunology

P. Pages : 2
Time : Three Hours



GUG/W/23/13334
Max. Marks : 50

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- Notes : 1. All questions are compulsory.
2. Draw diagrams wherever necessary.

1. Give detail information about secondary lymphoid organs in detail. **10**

OR

- a) Give the information about Thymus. **2½**
- b) Write a note on GALT. **2½**
- c) Describe the types of T lymphocytes. **2½**
- d) Discuss about granulocytes. **2½**

2. Discuss anatomic and physiological barriers of innate immunity. **10**

OR

- a) Discuss the factors influencing innate immunity. **2½**
- b) Describe non-specific resistance with various example. **2½**
- c) Give the information about types of immunity. **2½**
- d) Write a note on cell mediated immunity. **2½**

3. Give detail account on structure and classes of immunoglobulins. **10**

OR

- a) Discuss about the factors determining antigenicity? **2½**
- b) Describe radial immunodiffusion method. **2½**
- c) Write a note on Coomb's test. **2½**
- d) Discuss about ELISA test. **2½**

4. Discuss Gell and Coomb's classification of hypersensitivity in detail. **10**

OR

- a) Write a note on Rheumatic arthritis. **2½**

- b) Give the information about immunological tolerance. 2½
- c) Give brief information about erythroblastosis fetalis. 2½
- d) Discuss the causes of autoimmunity? 2½

5. Attempt **any ten** of the following.

- a) What is Spleen? 1
- b) What is the function of antigen presenting cells? 1
- c) Which granulocyte is involved in antiparasitic activity? 1
- d) What is acquired immunity? 1
- e) What is secondary immune response? 1
- f) What is Vasodilation? 1
- g) Define Autoantigen. 1
- h) Which antibody is able to cross placental barrier? 1
- i) Which radiolabelled isotopes are used in Radioimmunoassay? 1
- j) What is Hypersensitivity? 1
- k) Which disease is detected by Mantoux test? 1
- l) Enlist any two autoimmune disorders. 1
