

B.Sc. (with Credits)-Regular-Semester 2012 Sem VI
B.Sc.4534-Microbiology Paper-II (Immunology)

P. Pages : 2

Time : Three Hours



GUG/W/16/5651

Max. Marks : 50

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

1. What is lymphoid organ? Give details on secondary lymphoid organs. **10**

OR

What is Innate immunity? Explain the mechanism of Innate immunity with reference to the mechanical factors?

2. Discuss Radio immuno assay (RIA)? Give its applications? **10**

OR

What is meant by Hypersensitivity? Explain the mechanism of type – I Hypersensitivity.

3. a) Describe the structure and two functions of Thymus. **2½**

b) Write a note on Humoral Immune response. **2½**

c) Describe the procedure of ELISA. **2½**

d) Explain autoimmune disorder with the help of Rheumatoid arthritis. **2½**

OR

e) What are granulocytes? Describe their types. **2½**

f) Explain the mechanism of phagocytosis. **2½**

g) What is Immunoglobulin. Give the structure of IgM. **2½**

h) Discuss the mechanism of Erythroblastosis fetalis. **2½**

4. a) Write note on development of B-Lymphocytes **2½**

b) Write a note on primary immune response. **2½**

c) Explain Agglutination Reaction with the Help of ABO Blood group system. **2½**

d) Discuss immunological tolerance. **2½**

OR

e) Write a note on macrophages. **2½**

f) Explain passive immunity with example. **2½**

g) Give characteristics of IgA Immunoglobulins. 2½

h) What is MHC? Explain its function. 2½

5. Attempt any ten.

a) What is CD₄ cell? 1

b) What is secondary follicle? 1

c) What is GALT? 1

d) What is Complement? 1

e) What is meant by NK cells. 1

f) What is innate immunity? 1

g) Define Antibody. 1

h) Which antibody is involved in complement fixation. 1

i) Give two examples of immunofluorescent dye. 1

j) What is allergens? 1

k) Which antibody is involved in Type-III Hypersensitivity. 1

l) Define Autoimmunity. 1
