

Bachelor of Science (B.Sc.) Semester-VI Examination

Microbiology

(Immunology)

Paper—1

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. Describe Active and Passive Immunity. 10

OR

Discuss mechanisms of non-specific immune response. 10

2. Write notes on :

(a) T and B cells 5

(b) Clonal selection theory. 5

OR

Write notes on :

(c) Cytotoxic T cell response 5

(d) Monocytes and Macrophages. 5

3. Describe the structure of Immunoglobulins. 10

OR

Discuss various applications of precipitation reaction. 10

4. Write notes on :

(a) Arthus reaction 2½

(b) Rh compatibility 2½

(c) Gel & Coomb's classification 2½

(d) Delayed hypersensitivity 2½

OR

(e) Localized anaphylaxis 2½

(f) Immunofluorescence 2½

(g) Serum sickness 2½

(h) Mantoux test. 2½

5. Solve any **TEN** :

(i) Name any two secondary lymphoid organs.

(ii) What is interferon ?

(iii) What is MALT ?

(iv) What are NK cells ?

(v) What is MHC ?

(vi) Define cytokines.

(vii) What is isoantigen ?

(viii) Define Hapten.

(ix) Define Agglutination.

(x) What is ELISA ?

(xi) How anaphylaxis can be prevented ?

(xii) What is tagged antibody ? 10×1