

NKT/KS/17/5212

Bachelor of Science (B.Sc.) Semester—VI (C.B.S.) Examination**IMMUNOLOGY****(Microbiology)****Paper—1**

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory.

(2) All questions carry equal marks.

(3) Draw diagrams and give examples wherever required.

1. Discuss acquired immunity. 10

OR

Describe secondary lymphoid organs. 10

2. (a) Draw diagram of haematopoiesis. 2½

(b) Give general characters of B and T cells. 2½

(c) Discuss natural Killer Cells. 2½

(d) Explain Clonal Selection Theory. 2½

OR

(e) Give diagrammatic presentation of antigen presentation and MHC molecule. 2½

(f) Discuss T cell dependent antibody response. 2½

(g) Explain cytotoxic T cell response. 2½

(h) Write a note on T cell receptor. 2½

3. Write various applications of agglutination reaction. 10

OR

Discuss general structure of immunoglobulin. 10

4. (a) Discuss Arthus reaction and serum sickness. 5

(b) Discuss Mantoux test and contact dermatitis. 5

OR

(c) Write a note on indirect ELISA test. 5

(d) Discuss immunofluorescence. 5

5. Solve any **ten** :

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| (i) What is racial immunity ? | 1 |
| (ii) What is interferon ? | 1 |
| (iii) What is phagocytosis ? | 1 |
| (iv) What are Eosinophils ? | 1 |
| (v) What are Monocytes ? | 1 |
| (vi) What are Dendritic cells ? | 1 |
| (vii) What are Isoantigens ? | 1 |
| (viii) What are heterophile antigens ? | 1 |
| (ix) What is rising antibody titre ? | 1 |
| (x) What is anaphylaxis ? | 1 |
| (xi) What is Rh compatibility ? | 1 |
| (xii) What is delayed hypersensitivity ? | 1 |