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Roll No.....

B.Sc. (Biotech.)- II Year

NS-3468

B.Sc. (Biotechnology) Examination,

June-2023

**IMMUNOLOGY AND
IMMUNOTECHNOLOGY**

(B-205)

B.Sc. (Biotech.)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any five questions. All questions carry equal marks.

1. Describe the structure of Immunoglobulin and write the features of various type of Immunoglobulin with suitable diagrams. 10
2. Define antigen-antibody reaction. List various serological methods to demonstrate

antigen-antibody reaction in vitro along with their principles. 10

3. Write short note (*any two*) : 2×5=10

~~(i)~~ Rheumatoid Arthritis

(ii) Asthma

~~(iii)~~ Myasthenia gravis

4. Explain antigen-antibody cell mediated cytotoxicity. What are the important roles of cytokines ? 10

5. Write an essay on MHC complex. 10

6. Write note on (*any two*) : 2×5=10

(i) IRMA

(ii) ELISA

(iii) RIA

(iv) Western-Blotting

7. Define Vaccines, classify it. How do they work against virus and bacteria ? Why are not all vaccines are 100% effective ? 10

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8. How monoclonal antibody are produced ? Write its application in the field of diagnostic and therapeutics. 10
9. What is antibody diversity ? How they effect on T-cell function ? Explain clearly. 10