

A (Printed Pages 3)
(20622) Roll No
B.Sc.(Biotech.)-II Year

NS-3468

B.Sc. (Biotechnology)

Examination, June-2022

Immunology and Immunotechnology

(B-205)

(New)

B.Sc. (Bio-Tech.)

Time : Three Hours] [Maximum Marks : 50

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

1. Define and classify antigen, antibody reaction. Discuss Agglutination test with examples? 10

2. What is Humoral immunity? How it is differ from cell-mediated immunity? Explain. 10

3. Write short note on: 5×2=10

(1) Pernicious anaemia

(2) Rheumatoid Arthritis

(3) Hashimoto's thyroiditis

4. Define hybridoma technology? Discuss its utility for the production of monoclonal antibodies. Write its application also? 10

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

(1) MHC complex

(2) Abnormal Immunoglobulin

(3) Type IV Hypersensitivity Reaction

(4) Acquired Immunity

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6. What is Immuno-electrophoresis? What is meaning of term RIA & IRMA? 10
7. What is antigenic determinants on Immunoglobulin? Give an account of each type i.e. Isotype, Idiotypic and Allotype? 10
8. Give concise account of nature of vaccines? Discuss the role of biotechnology in the development of new methods for production of vaccines? 10