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B.Sc. (Biotech)-II Year

(Printed Pages 3)

Roll No.

3468

B.Sc. (Biotechnology)

Examination, April-2026

Immunology and Immunotechnology

(B-205)

B.Sc. (Bio-Tech.)

Time : Three Hours]

[Maximum Marks : 50

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

1. Explain the concept and significance of innate immunity. Which cells are important in innate immunity and how?

10

2. Explain the structure of lymph node and how it regulates immune response of the body.

10

P.T.O.

3. Describe the structure and cellular distribution of class I MHC molecules. How they are important in antiviral immunity? 10

4. What is the difference between precipitation and agglutination reaction? Discuss their application in diagnostics.

<https://www.pyqonline.com> 10

5. Compare RIA and ELISA. Describe the different formats of ELISA along with their significance. 10

6. What are the characteristic features of B lymphocytes? Explain four different ways by which antibodies exert their protective effect against pathogens. 10

7. What is autoimmunity? Explain its role in Myasthenia Gravis and Hashimoto's thyroiditis. 10

~~8.~~ How monoclonal antibodies are different from polyclonal antibodies? Discuss the therapeutic use of monoclonal antibodies. 10
