Ref. No.: Ex/MPB202T/2024

JADAVPUR UNIVERSITY

Dept. of Pharmaceutical Technology

M. Pharm 1st Year, 2nd Semester Examination, 2024

Sub: Immunotechnology

Time: 3Hrs. Full Marks: 75

Answer ANY FIVE of the following questions

- 1. Define immunity and immune system. Elaborate the components of Immune system. Write down the applications of Immunotechnology in the field of medicine. 3+5+7=15
- 2. What are Antigens? Enlist their properties.

 Describe the structure of an Immunoglobulin with proper diagram.

 5+10=15
- 3. What are lymphoid organs? Define epitope and paratope. Give a brief idea on T cells and B cells. 3+2+5+5=15
- 4. Write short notes on
 - a. Immunotolerance b. Types of Immunoglobulins c. Anaphylactic shock 5x3=15
- 5. Differentiate between primary and secondary immune response. Discuss the types of hypersensitive reactions based on mechanism of action. 7+8=15
- 6. What is the principle and application of agglutination test? Discuss the limitations of agglutination test. 8+7=15
- 7. Compare and contrast between the following
 - a. Active and passive immunization
 - b. Attenuated and inactivated vaccines
 - c. Phagocytosis and Pinocytosis

5x3=15