

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

M.tech-II Semester (BT/BI)

COURSE CODE (CREDITS): 14M11BT212 (3-0-0)

MAX. MARKS: 15

COURSE NAME: Immunotechnology

COURSE INSTRUCTORS: Dr. Tyson

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Each question carry 3 Marks

1. Write the role of cytokines in immune regulation and communication between immune cells. [CO -2]
2. Explain the process of inflammation, including its cellular and molecular components. [CO-2]
3. What are the different pathways that activate the complement system, and write in detail about lectin pathway? [CO-2]
4. Describe the mechanism of dendritic cells in antigen presentation and immune cell response. [CO-2]
5. Explain the structure, functions of antibodies and write in detail about IgM immunoglobulin. [CO-1]