

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

MSc – II Semester (BT/BI)

COURSE CODE (CREDITS): 18MS1BT211 (3-0-0)

MAX. MARKS: 15

COURSE NAME: Immunology and 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. Explain how the major histocompatibility complex- I (MHC- I) works to display antigens and recognize T cells and also discuss the difference between MHC class I and class II molecules. [Co-2]
2. Demonstrate the processes that lead to the formation of immunological memory. [Co-1]
3. Discuss the various antibody classes, their roles in immune responses, and their distribution and activities. [Co-2]
4. Classify different types of Pattern recognition receptor (PRR) and write in detail about Toll like receptor (TLR). [Co-2]
5. Explain different classes of cytokines and discuss how the cytokines helps in generating adaptive immune response. [Co-2]