

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

B.Tech-VI Semester (BT & BI)

COURSE CODE(CREDITS):18B1WBT632 (3)

MAX. MARKS: 15

COURSE NAME: Infectious Disease

COURSE INSTRUCTORS: Dr. Gopal Singh Bisht

MAX. TIME: 1 Hour

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*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*

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Q1. Design an experiment to check antimicrobial activity of test compounds A, B and C. Explain how you will determine MIC and MBC? [3] [COII]

Q2. Discuss social and economic impact of infectious disease. How to calculate Disability-Adjusted Life Year (DALY)? [3] [COI]

Q3. What is the primary objective of epidemic investigations? Design a holistic strategy to control and investigate an outbreak. [4] [COI]

Q4. Explain followings. [COII]

a) Incubation period vs. Latent period [1.5]

b) Exotoxin vs. Endotoxin [1.5]

c) How pathogenic microorganism avoid host Phagocytic Defenses? [2]