

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
SUMMER SEM MID EXAMINATION- JUNE 2018
BT VIIIth Semester

COURSE CODE: 15B1WBT889

MAX. MARKS: 50

COURSE NAME: INFECTIOUS DISEASES

COURSE CREDITS: 3

MAX. TIME: 2 Hr

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q1. How Nutrition effects infection interaction with host? Explain by taking examples of micro-nutrients such as vitamin A, Zinc, Iron and selenium. [6]

Q2. Write short notes on followings. (Any Four) [6X4=24]

- a) Infection related metabolic alternations
- b) Antimicrobial susceptibility testing & Measures of antibiotic effect
- c) Strategies for preventing antimicrobial resistance
- d) Modes of direct and indirect transmission of infectious diseases
- e) Biochemical mechanism for antimicrobial resistance
- f) Underlying Mechanism of bacterial Pathogenesis

Q3. What is the characteristics of antimicrobial peptide? Explain their mechanism of action. What are the limitations of these peptides and discuss the strategies to deal with these limitations. [8]

Q4. Explain the use of main strategy used for designing antifungal drugs. Explain the mechanism and clinical use of Amphotericin B. [6]

Q5. How is sepsis syndrome defined? Explain which bacterial products can produce sepsis syndrome. [6]