

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Sep 2017

B.Tech III Semester

COURSE CODE: 14B11BI311

MAX. MARKS:15

COURSE NAME Microbiology and Immune System

COURSE CREDITS: 4

MAX. TIME: One Hr

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

Q1. Give reasons FOR or AGAINST the following statement. (ANY Three) [1.5 X 3 = 4.5]

- i. Human Pathogenic bacteria are mostly 'Mesophilic' in nature.
- ii. The 'pour plate' is a better technique than 'spread plate' to determine bacterial colony count of a soil sample.
- iii. High concentration of salt in pickles increases its shelf life.
- iv. Gram Positive bacteria appear colourless after treatment with alcohol during Gram Staining.

Q2. Describe Koch's postulates with suitable diagrams; discuss its significance in the development of medical microbiology. [4.5]

Q3. Draw labeled diagrams of Gram-negative and Gram-positive and cell walls. Give important differences between Gram Positive and Gram Negative bacteria. [3]

Q4. Write a short note on Viruses, including their classification and economic importance. [3]