

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T-1 EXAMINATION- Feb 2020

B. Tech 3rd Sem

COURSE CODE: 18B11BT414

MAX. MARKS: 15

COURSE NAME: Microbiology

COURSE CREDITS: 3

MAX. TIME: 1 Hr

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

Section-I

Q1 Define the following terms. (1×3= 3 marks) CO I

- (a) Enrichment Medium
- (b) Vaccination
- (c) Sterilization

Section-II

Q 2 What is binomial system of classification of microorganisms? What are the various basis of binomial system of classification? (2 marks) CO II

Q 3 Discuss the various types of microscopic techniques to visualize the microorganisms. (2 marks) CO II

Q 4 Discuss the Koch's postulates of disease transmission? (2 marks) CO I

Section-III

Q 5 Explain the various indirect methods of bacterial growth measurement (3 marks) CO II

Q 6 Explain the difference between Gram Positive (+ve) and Gram Negative(-ve) bacteria. Discuss the composition of cell wall of Gram (+ve) and Gram (-ve) bacteria with the help of diagrams. CO I (3 marks)