

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B. Tech-III Semester (BT)

COURSE CODE: 18B11BT414

MAX. MARKS: 15

COURSE NAME: MICROBIOLOGY

COURSE CREDITS: 3

MAX. TIME: 1 Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated against each question in square brackets.

Section I

Q1. Very short answer type questions. Each question carries one mark.

- a) When the rod shaped bacterial cells are grouped in form of long chains, those bacteria are classified as _____. (Mark 1 CO I)
- b) The growth rate of mesophilic microorganisms increases steadily when temperature increased from 15°C to 40°C. What is the major reason to increase in their growth rate? (Mark 1 CO II)
- c) Why Gram staining of bacteria is known as differential staining technique Explain. (Mark 1 CO II)
- d) The bacterial cells that contain flagella as locomotors structure at its both the ends are known as _____. (Mark 1 CO I)
- e) What are the abiogenesis conflicts that had been answered by breakthrough discoveries of microbiology? (Mark 1 CO II)

Section II

Q2 Classify the bacteria on the basis of motile appendages. Give appropriate diagrams to explain the same. (Mark 2 CO II)

Q3 How 70% ethanol used specifically to sterilize the contaminated surface and why only 70% ethanol causes the cell death? (Mark 2 CO III)

Section III

Q4 Explain with the help of a labeled diagram the structure of a prokaryotic cell. (Mark 3 CO I)

Q5 Differentiate between Gram positive and Gram negative bacteria. Give an example for each. (Mark 3 CO II)