

V. P. & R. P. T. P. Science College
B. Sc (Semester 2) (Autonomous) (NEP)

Internal test

Microbiology (US02MAMIC01)

Date: 04/03/2024 (Tuesday)

Time: : 12: 45 p.m to 1: 15 p.m.

Total Marks: (30)

Note: Figures to the right indicate marks of the question.

Q:1) Choose correct answers from the options given for the following questions. (10)

- (i) Enzymes are polymers of _____.
(a) Fatty acids (c) Phosphates
(b) Amino acids (d) Glucose
- (ii) Sucrose is an example of _____.
(a) Monosaccharide (c) Polysaccharides
(b) Disaccharide (d) Amino acid
- (iii) Type strain used for identification of bacteria is a representative of _____.
(a) Species (c) Genus
(b) Family (d) Division
- (iv) The organisms utilizing inorganic compounds as electron donor are called _____.
(a) Autotrophs (c) Heterotrophs
(b) Lithotrophs (d) Chemotrophs
- (v) Which of the following is an example of obligate parasite?
(a) Rickettsia (c) Chlamydia
(b) Treponema (d) All of these
- (vi) Submerged growth is obtained in _____ method.
(a) Streak plate (c) Pour plate
(b) Spread plate (d) All of these

Q:2) Write a note on carbohydrates. [06]

OR

Q:2) Discuss classification of enzymes. [06]

Q:3) Explain classification of bacteria using DNA homology experiment. [06]

OR

Q:3) Enlist and explain any three criteria used for classification of bacteria. [06]

Q:4) Describe various types of media based on application and function. [06]

OR

Q:4) Describe nutritional requirements of bacteria. [06]

Q:5) Describe various methods of preservation of pure culture. [06]

OR

Q:5) Discuss physical and chemical Methods of Selection of pure culture [06]

