

2003000203020117
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (THIRD SEMESTER)
BIO SCIENCE (MICROBIOLOGY) PAPER - V
BS-303 : INSTRUMENTATION & BIOSTATISTICS

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF SCIENCE (THIRD SEMESTER)**
 - b. Name of the Subject: **BIO SCIENCE (MICROBIOLOGY) PAPER - V BS-303: INSTRUMENTATION & BIOSTATISTICS**
 - c. Subject Code No: **2003000203020117**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Multiple choice questions (MCQs):

8

1. Natural radioactive elements are
 - a. Hazardous
 - b. Used for generation of energy
 - c. Not be detected by chemical method.
 - d. All

2. Time required for a given isotope to disappear to half its original value is called
 - a. Physical half-life
 - b. Biological half-life
 - c. Radio Active Decay
 - d. All

3. Which of the following is an electrochemical instrument?
 - a. Electrophoresis
 - b. pH meter
 - c. Spectrophotometer
 - d. Microscope

Q.3 Answer any two of the following. 14

1. Write a brief account on EM Radiation.
2. Describe in brief principle & component of colorimeter.
3. Write a note on - pH meter.

Q.4 Describe in detail about principle and types of paper chromatography. 14

OR

Answer the following questions. 14

1. Write a note on tabulation.
2. Describe in brief types of electrophoresis.
