

2103000203026002 / 2103001103030005
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (THIRD SEMESTER)
MICROBIOLOGY PAPER – VI
MB-302 CONTROL OF MICROORGANISMS IN THE
ENVIRONMENT

[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 : **MICROBIOLOGY PAPER – VI MB-302 CONTROL OF MICROORGANISMS IN THE ENVIRONMENT**
 - c. Subject Code No : **2103000203026002 / 2103001103030005**
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 Give specific answers

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1. Differentiate between disinfection and antiseptics.
2. Why Bacillus spores are used as sterility indicator?
3. Enlist two criteria for choosing a microbicidal chemicals.
4. State the limitations of gaseous sterilizing agents.
5. Give the full term of HEPA
6. What is decimal reduction time?
7. What is the mode of action of Phenol?
8. Write one application of detergents and soap.

Q.2 Explain/comment on any two of the following

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1. Explain dry heat takes longer than moist heat to kill microbes.
2. Comment: Dyes are very effective against gram positive bacteria.
3. Various factors are affecting germicidal activity of chemicals - Justify.

Q.3 Discuss any two of the following.

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1. Write a detail note on action of antimicrobial agents.
2. Write an essay on ionizing and nonionizing radiation as an antimicrobial agent.
3. Discuss in detail the types and uses of halogens containing antimicrobial agents.

Q.4 Write short notes on any two of the following

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1. Alcohols as antimicrobial agent
2. Heavy metals: - effective against microbial control
3. Filtration
