

1903000203020071
EXAMINATION NOVEMBER 2024
BACHELOR OF SCIENCE (NON-NEP) (THIRD SEMESTER)
MEDICAL LABORATORY TECHNOLOGY PAPER – V
ENVIRONMENT & FOOD MICROBIOLOGY

[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 : **MEDICAL LABORATORY TECHNOLOGY PAPER - V ENVIRONMENT & FOOD MICROBIOLOGY**
- c. Subject Code No : **1903000203020071**

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 Answer any four of the following:

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- a) Differentiate Portable water Vs. Non-Portable water.
- b) Which microbes are involved in the production of yogurt and cottage cheese?
- c) Enlist techniques for the enumeration of air microflora.
- d) Give a brief idea about the functions of microorganisms in the soil.
- e) Define water activity State its role in food spoilage.

Q.2 Comment on/ Justify: any two

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- a) Indoor and outdoor air contains a variety of microorganisms.
- b) Some molecular techniques have been specifically developed to ensure food safety.
- c) The rhizosphere is a natural habitat for a variety of bacteria and fungi.

Q.3 Write an essay on: any two

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- a) Give a detailed account of wine production.
- b) Explain nitrogen fixation and role of the nitrogenase enzyme.

c) Describe the procedure used in drinking water treatment.

Q.4 Write short notes on any two

14

- a) Probiotics.
- b) Trickling filter (TF) system.
- c) Number and kinds of organisms in the air.
