


RAN-2503000505016001
T.Y.B.Sc. (Sem. V) Examination March - 2026
MB-MJ-501 : Microbiology
Applied and Environmental Microbiology
Time: 1 Hour]
[Total Marks: 25
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labeled diagrams whenever necessary.

Seat No.:

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Student's Signature

Q.1 Give the specific answers (Any five)
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- a. Mention two factors that affect the amount/number of microorganisms in the air.
- b. Define: Mineral soil
- c. True or False: Bacteria grow better in the presence of colloidal clay than in its absence.
- d. What is sanitary survey?
- e. Write the full form of BOD.
- f. What is the main purpose of primary treatment in wastewater management?

Q.2 Explain/comment on any two of the following.
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- a. Explain the impingement in liquid method used for aerosol sampling.
- b. Explain the different types of algae commonly found in soil.
- c. Explain the direct microscopic method for studying soil microorganisms, highlighting its process, advantages, and objections.

Q.3 Answer in short/short note, any 2 of the following.
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- a. Treatment of waste water in individual dwelling units.
- b. Role of microorganisms in wastewater treatment.
- c. Test for enumeration of coliforms in drinking water