



# RAN-7020

## B. Sc. (Medical Technology) (Semester-IV) Examination

### March / April - 2019

### MT 08: Analytical Microbiology (Old Syllabus)

Time: 2 Hours ]

[ Total Marks: 50

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

B. Sc. (Medical Technology) (Semester-IV)

Name of the Subject :

MT 08: Analytical Microbiology

Subject Code No.:

7 0 2 0

Seat No.:

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Student's Signature

**Instruction:**

1. Figures to the right indicate full marks.
2. Draw neat and labelled diagrams wherever necessary.

**Q-1 Answer the following:**

**[10]**

- (1) Give any four point's differentiating rapid sand filter from slow sand filter.
- (2) Enlist the characteristics of an indicator organism for water analysis.
- (3) What is biological oxygen demand and give its significance.
- (4) What is radappertization?
- (5) What is the role of mycorrhiza in soil?

**Q-2 Explain in brief: (any two)**

**[14]**

- (1) Describe major steps involved in municipal sewage treatment.
- (2) Explain the methods for enumeration of bacteria in soil.
- (3) Discuss enumeration of microorganisms in air with reference to impingement in liquid methods.

**Q-3**                      **Answer the following in detail: (any one)**                      **[12]**

- (1) What are the various steps involved in wastewater treatment process.  
Explain the methods involved in secondary treatment?
- (2) Justify, "Wine and beer both are alcoholic beverages but their production processes differ significantly".

**Q-4**                      **Write short notes on: (any two)**                      **[14]**

- (1) Air sanitation.
  - (2) Sanitary landfills.
  - (3) Fungal-derived carcinogen: Aflatoxin.
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