



RAN - 2503000504027001

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S. Y. B. Sc. (MLT) (Sem. - IV) Examination April - 2025

Medical Laboratory Technology

MLT-MJ-402 : Bacterial Culture Technique

Time: 2 Hours]

[Total Marks: 25

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B. Sc. (MLT) (Sem. - IV)

Name of the Subject :

**Medical Laboratory Technology - MLT-MJ-402 :
Bacterial Culture Technique**

Subject Code No.: **2503000504027001**

Seat No.:

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Student's Signature

- (2) Answer all the questions.
(3) Draw neat and labeled diagrams wherever necessary.

Q. 1. Answer in short: (Any Five)

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- What acts as a solidifying agent in culture media?
 - Agar
 - Water
 - Peptone
 - Meat extract
- Serial dilution requires _____.
 - Flasks with enrichment media
 - Micromanipulator
 - 6 test tubes with 9 ml distilled water in each
 - Straight wire
- Pure culture is maintained by _____.
 - Refrigeration
 - Freezing
 - Lyophilization
 - All

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[P.T.O.]

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4. _____ is Gram positive cocci arranged in grape like cluster.
- a. Streptococci
 - b. Bacillus
 - c. Staphylococci
 - d. All
5. _____ is used for pathogenicity tests.
- a. Guinea pigs
 - b. Mice
 - c. Rabbits
 - d. All
6. _____ gives indole positive test.
- a. *Escherichia coli*
 - b. *Bacillus cereus*
 - c. *Staphylococcus aureus*
 - d. *Enterobacter aerogenes*

Q. 2. Attempt any Two of the following: 10

1. Explain streak plate culture technique in detail.
2. Explain single cell isolation method in detail.
3. Explain maintenance and preservation of pure culture in brief.

Q. 3. Write any Two short notes of the following: 10

1. Morphology of bacterial colony
2. *Streptococcus pyogenes*
3. *Pseudomonas aeruginosa*