

2403000503066001
EXAMINATION NOVEMBER 2024
BACHELOR OF SCIENCE (NEP) (THIRD SEMESTER)
SEC-MICROBIOLOGICAL MEDIA - LEVEL 6

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (NEP) (THIRD SEMESTER)**
- b. Name of the Subject : **SEC-MICROBIOLOGICAL MEDIA - LEVEL 6**
- c. Subject Code No : **2403000503066001**

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. (Any Five)

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- a. What ingredient in Mannitol Salt Agar makes it selective for Staphylococci?
- b. Give two examples of general bacteriological media.
- c. Which media uses resazurin as an indicator to show the presence of oxygen?
- d. What color develops after adding reagents in the positive Nitrate Reduction test?
- e. What is the principle of the Catalase test?
- f. What does a clear zone around a bacterial colony in a starch hydrolysis test indicate?

Q.2 Write a short note/ Comment on any two of the following:

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- a. How does MacConkey Agar function as a differential medium? What differentiates lactose fermenters from non-fermenters on this medium?
- b. How King's Agar facilitate the production and observation of pigments in bacterial colonies?
- c. What is microbiological media and explain the role of agar in solid media?

Q.3 Answer in Brief on any two of the following:

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- a. Explain the principle of the MR-VP (Methyl Red-Voges Proskauer) test.
- b. How do you interpret the formation of a black precipitate in the H₂S production test?
- c. Describe the procedure and significance of the Gelatin Hydrolysis Test.
