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F. Y. B. Sc. (Sem. - II) Examination October - 2025

Microbiology - SEC (Paper - MB-SEC-201)

Conventional Methods for Identification of Bacteria

Time: 0.30 Minutes]

[Total Marks: 13

સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

Q. 1. Attempt the following multiple choice questions (Any Thirteen) (13)

- Pure culture consists of _____.
A. Multiple organisms B. Only one type of organisms
C. Different types of organisms D. A & B both
- Macroscopic visible growth of microorganisms on a solid medium is known as _____.
A. Colony B. Development
C. Solidified culture D. Bacterial culture
- Who invented Petri Plates?
A. R. C. Petri B. R. J. Petri
C. R. M. Petri D. R. R. Petri
- Which of the following techniques is commonly used for isolating a single cell from a hanging drop preparation?
A. Streak plate method B. Micromanipulation
C. Spread plate method D. Pour plate method
- Why is an enrichment culture technique often performed under selective environmental conditions?
A. To eliminate competition from undesired microorganisms
B. To provide better nutrient availability
C. To increase contamination
D. To prevent microbial growth
- Which isolation technique involves serial dilution followed by plating on agar medium?
A. Streak plate B. Pour plate
C. Spread plate D. Micromanipulation
- Which of the following is a selective medium used for the isolation of anaerobes?
A. Blood agar B. Thioglycolate broth
C. MacConkey's agar D. Nutrient agar
- The indications for pure cultures is/are _____.
A. Isolate bacteria in pure culture B. Estimate viable counts
C. Maintain stock cultures D. All the given

9. What is one of the primary functions of culture collection centers?
 - A. Mass production of microorganisms for commercial use
 - B. Preservation, authentication and distribution of microbial strains
 - C. Genetic modification of microorganisms
 - D. Disposal of obsolete microbial strains
 10. Which one of the following is preferable for sub-culturing of microorganisms?
 - A. Agar Slant
 - B. Agar Stabs
 - C. Broth
 - D. All of the given
 11. The Gram Staining is of great value in morphological characterization because
 - A. Easy to perform
 - B. No chemicals used
 - C. Differentiate between Gram positive and negative organism
 - D. None of these
 12. The amount of light transmitted through colony is described as _____
 - A. Opacity
 - B. Consistency
 - C. Elevation
 - D. Pigmentation
 13. Which types of biochemical characteristics are useful for identifying & classifying microorganisms?
 - A. Enzyme catalysed metabolic reactions
 - B. Endproducts
 - C. Presence or absence of certain enzymes
 - D. All the given
 14. What is the full form of NCIM?
 - A. National Collection of Industrial Microorganisms
 - B. National Collection of Important Microorganisms
 - C. Nationalized Collection of Industrial Microorganisms
 - D. National Collective Centre of Industrial Microorganisms
 15. In which of the following growth is uniformly distributed?
 - A. Slant culture
 - B. Broth culture
 - C. Stab culture
 - D. Nutrient agar plate
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