


RAN-2403001301066009
B.Sc. (NCF-NEP) (Bio Technology) (Sem. I) Examination March - 2026
SEC - Bacteriological Media And Isolation Techniques
Time: 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 (2) Figures to the rig it indicate full marks. (4) Draw neat and labelled diagrams wherever necessary.	Seat No.: <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> Student's Signature						

Q.1. Choose the correct option.
[06]

- A culture medium whose exact chemical composition is not known is called
 A) Synthetic medium B) Complex medium
 C) Minimal medium D) Defined medium
- Discontinuous heating used for sterilization is also called:
 A) Autoclaving B) Pasteurization
 C) Tyndallization D) Dry heat sterilization
- What term is used to describe a visible mass of bacterial cells originating from a single cell grown on solid media?
 A) Colony B) Biofilm
 C) Pure culture D) Culture medium
- A bacterial culture prepared using pure culture technique is called:
 A) Mixed culture B) Axenic culture
 C) Enrichment culture D) Selective culture
- Which of the following is an example of a protein hydrolysate used in culture media?
 A) Agar B) Peptone
 C) Glucose D) Sodium chloride
- The principle involved in the streak plate method is:
 A) Using selective media to isolate bacteria
 B) Dilution by spreading bacteria over the agar surface to obtain isolated colonies
 C) Enriching bacterial growth by incubation
 D) Mixing bacterial cultures thoroughly

Q-2 Answer in one word/one line. (Any 7)
[07]

- Give any one example of solid media.
- Yeast extract is a rich source of which vitamin?
- What is used as a solidifying agent in media preparation?
- Which instrument is used for sterilization of media?
- What is the function of phosphates used in media preparation?
- Who used the cut potatoes as solid surface for growth of bacteria?
- What is the temperature and pressure generally used in autoclave?
- What type of heat is used in autoclave for sterilization?