

**RAN-2403000503026001****S.Y.B.Sc. (Sem. - III) Examination November - 2025****Microbiology : Control of Microorganisms (Paper : MB - MJ - 302)****Time: 1 Hour]****[Total Marks: 25****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. Short question (Any 5 out 6)**(05)**

- Name an instrument used in dry heat sterilization.
- Give any one difference between sterilization and pasteurization.
- State any one use of lyophilization technique.
- Give an application of iodophore in microbial control.
- Who first gave use of phenol as germicide?
- Give one example of detergent used for disinfection.

Q. 2. Comment/Explain (Any 2) of the following**(10)**

- Refrigeration and freezing are considered as convenient method for microbial control.
- Which types of radiation are used to control growth of microorganisms? Explain them in detail.
- How desiccation and moist heat can inhibit microorganisms? Discuss their applications in sterilization process.

Q. 3. Answer in short/short note (Any 2) of the following**(10)**

- Explain in detail the major factors that influence the germicidal activity of chemical agents used in microbial control?
- Explain the mechanism of action and applications of glutaraldehyde and formaldehyde as chemical sterilant.
- Enlist the phenolic compound used in microbial disinfection and control. Discuss any two in detail.