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RAN-2203230201040001

PGDMLT (Sem. - I) Examination March - 2025

Basics of Microbiology (Paper - 1004 A)

Time: 3 Hours]

[Total Marks: 70

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:

PGDMLT (Sem. - I)

Name of the Subject :

Basics of Microbiology (Paper - 1004 A)

Subject Code No.: 2203230201040001

Seat No.:

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Student's Signature

- (2) Answer all the questions.
- (3) Draw neat and labelled diagrams wherever necessary.
- (4) Figures to the right indicate full marks of the question.

Q. 1. Answer in Short: (Any Seven)

14

1. Define: Numerical aperture.
2. Enlist the types of symmetry in virus giving suitable examples.
3. Who is known as the Father of Modern Microbiology?
4. What are mordants?
5. Give the full form of HEPA and LAF.
6. State the principle of urease test.
7. Enlist any four ideal characteristics of disinfectants.
8. Mention the full form and use of CLED Agar.

Q. 2. Attempt any TWO of the following:

14

1. Give the contributions of Robert Koch.
2. State the morphological classification of bacteria.
3. Write a note on types of parasites.

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[P.T.O.]

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- Q. 3. Attempt any TWO of the following: 14**
1. Explain principle and components of phase contrast microscope.
 2. TEM v/s SEM
 3. Explain the principle and components of fluorescent microscope.
- Q. 4. Attempt any TWO of the following: 14**
1. Write a short note on gaseous sterilizing agents.
 2. Radiation is employed as a physical method of sterilization. Justify.
 3. Write a note explaining phenol and phenolyic compounds as a chemical sterilizers.
- Q. 5. Attempt any TWO of the following: 14**
1. Explain principle, composition & use of MSA medium.
 2. Explain broth and slant culture method along with their interpretation.
 3. Write a brief note on pour plate technique.
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