


RAN-2303000501038001
B.Sc. (NCF-NEP) (Sem. - I) Examination November - 2025
Bioscience (Microbiology) Minor - I (Paper - BM-MN-1)
Fundamental Microbiology
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. (2) Figures to the right indicates full marks of the question. (3) Draw a neat & labelled diagram whenever necessary.	Seat No.: Student's Signature
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Q.1. Multiple choice questions: (Any Five) (05)

1. Which of the following is included in five kingdom classification?
 - a. Bacteria, Amoeba, Hydra, Cycad, Chlorella
 - b. Bacteria, Amoeba, Candida, Cycad, Hydra
 - c. Polio, Bacteria, Candida, Cycad, Hydra
 - d. Chlorella, Candida, Moss, Cycad, Hydra
2. _____ discovered the first vaccine.
 - a. Robert Koch
 - b. Louis Pasteur
 - c. Lister
 - d. Edward Jenner
3. The smallest taxon amongst following is _____.
 - a. Class
 - b. order
 - c. species
 - d. race
4. If 10x and 40x objectives are used (air is the medium), the numerical aperture is
 - a. 1.5
 - b. 2.0
 - c. 1.0
 - d. 1.8
5. Which of the following is a basic dye?
 - a. Eosin
 - b. Crystal violet
 - c. Congo red
 - d. All
6. Temperature used for hot air oven is
 - a. 100°C for 2 hour
 - b. 120°C for 1 hour
 - c. 160°C for 2 hour
 - d. 60°C for 3 hour

Q.2. Answer the following questions. (Any two) (10)

1. Explain - Abiogenesis.
2. Write a note on Fundamental branch of microbiology.
3. Explain in detail Whittaker's classification system.

Q.3. Answer the following questions. (Any two) (10)

1. Describe in brief about type of microscopy.
2. Explain - Principle of Monochrome Staining.
3. Write a note on Autoclave.