

RAN-2303000501038001
B. Sc. (NCF - NEP) (Sem. I) Examination March - 2026
Bioscience (Microbiology) Minor - 1
Fundamental Microbiology (Paper - BM-MN-1)
Time: 1 Hours]
[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)
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1. The three kingdom classification was given by _____
a. Whittaker
b. Linnaeus
c. Copeland
d. Haeckel
2. The smallest unit of living organism is _____
a. DNA
b. RNA
c. Cell
d. Protein
3. Example of blue green algae in _____
a. Spirullina
b. Staphylococcus
c. Spirogyra
d. Spirochete
4. A microscope has an objective lens with a magnification of 45x and an ocular lens with a magnification of 10x. what is total magnification of the image?
a. 40x
b. 45x
c. 400x
d. 450x
5. Microscope must be required to observe _____
a. A stained bacterial smear
b. Live microbes
c. A stained animal tissue
d. All

6. A colored negative ion of an acidic dye will stain the background of a bacterial smear is called _____
- Indirect staining
 - Relief staining
 - Negative staining
 - All of the above

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

1. Explain - Microbes.
2. Describe in brief about Domain system.
3. Discuss in brief about applied branches of microbiology.

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

1. Describe in brief about fluorescence microscopy.
 2. Write a note on - Indicator dyes.
 3. Explain in brief dry heat sterilization
- _____