



RAN-2503000504016001

B. Sc. (NCF-NEP) Sem-IV Examination September - 2025

MB-MJ-401: Microbiology Paper-VIII

Microbial Taxonomy

Time: 1 Hour]

[Total Marks: 25

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B. Sc. (NCF-NEP) Sem-IV

Name of the Subject :

MB-MJ-401: Microbiology Paper-VIII Microbial Taxonomy

Subject Code No.: **2503000504016001**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labeled diagrams whenever necessary

Q.1. Give the specific answers of the following (ANY FIVE). (05)

1. Define phylogeny.
2. Who founded the five-kingdom classification system?
3. State the significance of Transport media.
4. Mention the name and color of pigment produced by *Xanthomonas*.
5. Which disease is caused by *Neisseria meningitidis*?
6. Differentiate between α -hemolysis and β -hemolysis.

Q.2. Answer the following. (ANY TWO) (10)

1. How is scientific nomenclature carried out? State its significance.
2. Explain the role of morphological characteristics and phage typing in microbial identification.
3. Discuss the role of Serology in the identification of bacteria.

Q.3. Answer the following. (ANY TWO)

(10)

1. Describe the various genera of *Enterobacteriaceae* family bacteria.
 2. Explain in brief about Aerotolerant Fermentative Cocci.
 3. Write a short note on Domain archaea.
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