

**RAN-2403000503066001****S.Y.B.Sc. NEP (Sem. III) Examination November - 2025****Microbiology, MB - SEC - 301****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. Give specific answers (Any 5)**05**

- Name any two mycological media.
- State the solidifying agent in culture media.
- Which component in MacConkey's agar inhibits gram positive bacteria?
- Which test differentiates between butanediol fermentation and mixed acid fermentation?
- The process of ATP generation during electron transport is known as _____
- In which test P-sulphobenzene-azo- α -naphthylamine is formed.

Q-2. Write a short note/ Comment on (Any two) of the following**10**

- Explain the significance of common ingredients of culture media.
- Composition of Mannitol salt agar makes it selective as well as differentia media. Justify it.
- Describe composition of Milk agar medium and its use.

Q-3. Answer in Brief on (Any two) of the following:**10**

- Compare H_2S production test and nitrate reduction test.
- Explain TSI test in detail.
- Explain gelatine hydrolysis test with examples.
