



RAN-2403000503016001

B.Sc. (NCF-NEP) (Sem. - III) Examination November - 2025
Microbiology : MB-MJ-301 : Microbial Nutrition And Growth

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 indicate full marks of the question.
- (3) Draw neat and labelled diagrams whenever necessary.

Seat No.:

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Student's Signature

Q. 1. Give specific answers. (Any Five)

(05)

1. Give two examples of Micronutrients.
2. Name the two methods for microbiology population size measurement.
3. Define mesophiles with an example.
4. What is complex media and give their undefined components names.
5. Give the one difference between a Chemostat and Turbidostat.
6. Which method is used to determine the number of viable microbes in a sample?

Q. 2. Answer in Brief on any two of the following:

(10)

1. Describe the effect of temperature on microbial growth.
2. Explain: Nutritional requirement of Nitrogen, Phosphorus and Sulphur for microorganisms.
3. Give the common nutritional requirements of microorganisms.

Q. 3. Answer in Brief on any two of the following:

(10)

1. Elaborate on the maintenance and preservation of microbial cultures.
2. Write on the process of bacterial and archaeal reproduction by binary fission.
3. Give a brief idea on: Growth curve.