



RAN - 2103000202030065

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B. Sc. (Sem. - II) Examination April - 2023

Microbiology : Paper - IV

MB-202 : Nutrition and Growth of Bacteria

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

(1)

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. (Sem. - II)

Name of the Subject :

Microbiology : Paper - IV MB-202 : Nutrition and Growth of Bacteria

Subject Code No.: **2103000202030065**

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 diagram wherever necessary.

Q. 1. Give specific answers:

12

1. Define osmosis.
2. What are micronutrients? Give two examples
3. What is a continuous culture? How can it be obtained?
4. Define plasmolysis.
5. What is a differential media? Give one example.
6. What are Osmolytes? Give one example.

Q. 2. Explain / comment on any two of the following:

12

1. Write a comparative account of chemostat and turbidostat.
2. Methods to determine bacterial growth.
3. Different types of culture media.

Q. 3. Discuss any two of the following: 16

1. Different phases of bacterial growth curve observed in batch cultures.
2. Comparative account of chemostat and turbidostat.
3. Classification of bacteria based on oxygen requirement

Q. 4. Write short note on any two. 10

1. Sources, role and mechanisms used by bacteria to obtain phosphorus.
 2. Classification of bacterial based on pH requirement for growth.
 3. Enrichment culture technique.
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