



RAN-2203000206026005

B.Sc. (Sem. VI) Examination September - 2025

Microbiology - XXI

MB 605: Microbial Products

Time: 2 Hours]

[Total Marks: 50

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. (Sem. VI)

Name of the Subject :

Microbiology - XXI MB 605: Microbial Products

Subject Code No.: 2203000206026005

Seat No.:

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Student's Signature

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

Q.1. Give Specific answers

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- Name any two microorganisms which can produce citric acid.
- What are bacteriocin?
- Mention an example of Mycoherbicide.
- Write any two bacterial genera used as an effective biocontrol agent
- Give the full form of MEOR
- What microorganisms are used for production of SCP?
- What happens to enzymes as pH increases?
- What is Biosensor?

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

14

- Cobalamin and riboflavin are essential food additives
- Phosphate solubilizing microorganisms are widely used as biofertilizers for agriculture enhancement.
- Biogas technology is a boon for Indian farmers.

Q-3. Discuss any two of the following. 14

- a. Describe the biosynthetic pathway for riboflavin along with its production process in brief.
- b. Write a detailed account on the different inoculant carriers and dispersal forms used in agriculture industries.
- c. What is enzyme immobilization? Enlist methods of enzyme immobilization. Give a brief note on any one method of enzyme immobilization.

Q-4. Write short notes on any two of the following 14

- a. Identification of *Rhizobium* for biofertilizer production
 - b. Fermentable substrate for bioethanol production
 - c. Biochips - the biological computers
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