



RAN - 2203000206026005

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B.Sc. (Sem. VI) Examination October - 2023

Microbiology - XXI

MB 605: Microbial Products

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(१)

नीचे दशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.
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 labeled diagrams whenever necessary.

Q.1. Give the specific answers

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- 1) Enlist any two L-Glutamic acid producing microbial strains.
- 2) Give two examples of aroma and flavour compounds derived from microorganisms
- 3) Write the full forms of IARI and KVIC.
- 4) What is Mycorrhiza? State its types.
- 5) Name two viruses used as bioinsecticides.
- 6) Write two names of invertase producing microorganisms.

Q.2. Comment on / Explain any two of the followings

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- 1) Microorganisms are now used as sources of a wide range of supplements like vitamins.
- 2) Single cell protein production carried out by various processes.
- 3) There are different techniques of immobilizing enzymes.

Q.3. Write any two of the following 16

- 1) Discuss surface process for citric acid production in detail.
- 2) Explain the photobiological process of hydrogen production in detail.
- 3) Write a detail note on cyanobacterial inoculants.

Q.4. Write short note on any two of the followings 10

- 1) Occurrence and economic significance of vitamin B₁₂
 - 2) Biocontrol agents
 - 3) Biochips
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