



RAN - 2203000206026005

**RAN-2203000206026005**

**B. Sc. (Sem. - VI) Examination April - 2023**

**Microbiology : 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 : 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.**

**12**

- 1) Who and when isolated crystalline vitamin B<sub>12</sub>?
- 2) Write any two ways to increase cell permeability for L-Glutamic acid excretion.
- 3) What is biogas?
- 4) Give two examples of PSMs present in soil.
- 5) Name two bacteria used as biocontrol agents.
- 6) Write two names of cellulase producing microorganisms.

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

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- 1) There are various food additives of microbial origin.
- 2) Explain manufacture of baker's yeast.
- 3) Biosensors are of different types.

- Q. 3. Write any two of the following: 16**
- 1) Discuss various recombinant therapeutic peptides and protein as health care products.
  - 2) Describe bioethanol in detail.
  - 3) Explain the role of Mycorrhizal fungi as biofertilizers.

- Q. 4. Write short note on any two of the followings: 10**
- 1) Biosynthesis of citric acid.
  - 2) Inoculant formulation.
  - 3) Methods of enzyme production.
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