



R A N - 2 2 0 3 0 0 0 2 0 6 0 2 6 0 0 3

RAN-2203000206026003

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

Microbiology

MB:603 Industrial Microbiology

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:603 Industrial Microbiology

Subject Code No.: 2203000206026003

Seat No.:

--	--	--	--	--	--

Student's Signature

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

Q.1 Give the specific answer of following questions. [12]

- Name the scientist who discover Chloromycetin and Aureomycin.
- Who discover Streptomyces and microbial product Tyrothricin?
- Give any two examples of microorganism classified as GRAS.
- Mention any two methods of Aseptic sealing to prevent contamination during fermentation.
- Give the full form of GMP and SOPs.
- State two main types of conventional filtration commonly used in industry.

Q.2. Explain/Comment the following with suitable example. [Any two] [12]

- Explain the preparation of Inoculum for fermentation.
- Comment: There are various factors that affect the final choice of industrial raw material.
- Draw a neat labelled diagram of A typical Bioreactors.

- Q.3. Answer the followings. [Any two] [16]**
- a. Explain in detail Primary Screening Techniques.
 - b. Mention the different Nitrogen source use in fermentation industry.
 - c. Differentiate between Mechanical cell and Non- Mechanical cell disruption methods.

- Q.4 Write a short note on following. [Any Two] [10]**
- a. Stirred tank bioreactor.
 - b. Applications of Fed-batch Reactors.
 - c. Product quality and Safety.
-