



RAN - 2203000206026003

RAN-2203000206026003

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

MB : 603 Industrial Microbiology

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 :

MB : 603 Industrial Microbiology

Subject Code No.: **2203000206026003**

Seat No.:

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Student's Signature

- (2) All questions are compulsory.
- (3) Figures to the right indicate marks of the question.
- (4) Draw neat and labelled diagram wherever necessary.

Q.1. Give specific answers:

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- a) Give two examples of primary metabolites.
- b) Write any fermentative product significantly studied by Louis Pasteur.
- c) State full term of UKNCC.
- d) Write any two cost-effective carbohydrate substrates used for media formulation.
- e) Name the filter used in filtration of bacteria after fermentation ends.
- f) What is the purpose of using aseptic seal in bioreactor.
- g) Enlist any two methods used as non-mechanical cell disruption.
- h) Give full form of GMM.

Q.2. Comment/Explain any two of the following:

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- a) Explain parasexual cycle in fungi.
- b) Discuss component devices of aeration and agitation in bioreactor.
- c) There are several cell separation techniques based on gravitational force.

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Q.3. Answer any two of the following: 14

- a) Discuss the role of secondary screening and its importance.
- b) Write about mechanism of mutagenesis.
- c) Explain submerged and solid-state fermentation in detail.

Q.4. Write short note on any two of the following: 14

- a) Product quality and safety
 - b) Inoculum development.
 - c) Characteristics of ideal production medium.
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