2203000206026003
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (THIRD YEAR)
(SIXTH SEMESTER)
MICROBIOLOGY - XIX - LEVEL 2
(MB-603-INDUSTRIAL MICROBIOLOGY)

[Time: As Per Schedule] **[Max. Marks: 50]**

Instructions:
1. Fill up strictly the following details on your answer book
a) Name of the Examination : **BACHELOR OF SCIENCE (THIRD YEAR)(SIXTH SEMESTER)**
b) Name of the Subject : **MICROBIOLOGY - XIX - LEVEL 2 (MB-603-INDUSTRIAL MICROBIOLOGY)**
c) Subject Code No : **2203000206026003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

Student's Signature

Q.1 Give specific answers: **8**

(a) Give any two examples of industrially important secondary metabolites.
(b) Enlist any two methods used for primary screening.
(c) Define: Mutation
(d) What is feedback inhibition?
(e) Write usage of sparger.
(f) Write full form of CSTF.
(g) What is lyophilization?
(h) Write full form of GMM.

Q.2 Comment/Explain any two of the following: **14**

(a) Justify: Secondary screening plays important role in finding potential industrially important strain.
(b) Explain characteristics of an ideal fermentation production medium.
(c) Explain industrial centrifuges used for cell harvesting process.

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

(a) Describe inoculum development in detail.
(b) Discuss isolation and collection of industrially important strain.
(c) Describe various chromatographic techniques used for product recovery in brief.

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

(a) Describe various carbon sources for production media
(b) Parasexual cycle in fungi
(c) Test systems

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