This question paper contains 2 printed pages]

## NA-85-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

## B.Sc. (Third Year) (Sixth Semester) EXAMINATION

## **NOVEMBER/DECEMBER, 2023**

(CBCS/New Pattern)

**MICROBIOLOGY** 

Paper XV

(Industrial Microbiology)

(Monday, 18-12-2023)

Time: 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

- N.B. := (i) Attempt all questions.
  - (ii) Represent your answers with suitable figures and examples wherever necessary.
- What is Screening? Describe in detail methods of primary screening for industrially important microorganism.

Or

Write notes on:

(a) Scope and development of industrial microbiology.

8

(b) Tower fermenter.

7

2. Describe in detail cell disruption methods for primary isolation of fermentation product.

P.T.O.

WT	(2)	NA—85—2023
	2017 By	96 A
	Or	

Write notes on:

3.

(a)	Diomsecticide production		27
( <i>b</i> )	Production of fungal amylase.		BIRD STA
Write	short notes on (any two):		200

- (a) Fed batch fermenter
- (b) Batch sterilization
- (c) Adsorption chromatography
- (d) Uses of glutamic acid.