This question paper contains 2 printed pages]

## NY-205-2023

## FACULTY OF SCIENCE

## M.Sc. (Fourth Semester) EXAMINATION

## **NOVEMBER/DECEMBER, 2023**

(CBCS/New Pattern)

**MICROBIOLOGY** 

Paper-XVIII (MB-303)

(Environmental Microbiology)

(Monday, 11-12-2023)	Time: 2.00 p.m. to 5.00 p.m.
Time—Three Hours	Maximum Marks—75
N.B. := (i) All questions are compulsory.	
(ii) Draw neat labelled diagram who	erever necessary.
(iii) All questions carry equal marks	
1. What is an ecosystem ? What roles do	the microorganisms play in
ecosystem ?	15
Or Or	
(a) Trophic structure of ecosystem	8
(b) Microbial communities in soil.	7
2. Describe in detail various sources of water	pollution. 15
Solve State of the Core of the	
Write notes on:	
(a) Oxidation pond	8
(b) COD	7
	P.T.O.

WT		(2) $NY=205=2$	2023
3.	Take	a detailed account on biotransformation of mercury.	15
		or et les	
	Write	notes on:	
	(a)	Bioextraction of copper	8
	( <i>b</i> )	Biodeterioration of paper.	7
4.	What	is eutrophication? How is it controlled?	15
		or son son son	
	Write	notes on :	
	(a)	Prevention and control of biocorrosion	8
	(b)	Acid rain.	7
5.	Solve	any three:	15
	(a)	Oil pollution	
	(b)	Hydrosphere	
	(c)	Biomagnification	
	(d)	Succession	
	(e)	UASB.	

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