This question paper contains 2 printed pages]

## NB-13-2023

## FACULTY OF SCIENCE

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

## NOVEMBER/DECEMBER, 2023

BIOTECHNOLOGY

(New Course)

Paper-(CCBT-3F)

(Environmental Biotechnology)

(Monday, 04-12-2023) Time: 10.00	a.m. to 1.00 p.m.
Time—3 Hours  Maxi	imum Marks—75
$\pmb{N.L.}:=(i)$ All questions are compulsory	
(ii) Draw a well labelled diagram wherever necess	sary.
1. Describe secondary waste water treatment with application	n. 15
Or Service Control of the Control of	
(a) Primary treatment	8
(b) Packed bed reactor.	7
2. Explain Biodegradation of Hydrocarbon with suitable exa	mple. 15
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WT			NB—13—2023
	(a)	Municipal solid waste treatment	8
	( <i>b</i> )	Anaerobic degradation.	2019 A29177
3.	What	is bioremediation? Write methods of bioremediation	with advantages
	and d	lisadvantages.	15
		Electric Services and the services and the services are the services and the services are the services and the services are t	
	(a)	Bioremediation of Saline Soil	8
	(b)	Phytoremediation.	30 <sup>67</sup> 10 <sup>67</sup> 7
4.	What	is xenobiotics? Describe herbicide degradation principle	with application.
6			15
EB,		Section 1860 State Or Land State 1860 Section 1860 Sectio	
	(a)	Pesticide degradation	8
	(b)	Cytochrome P <sub>450</sub> System.	9 <sup>k2</sup> 7
5.	Write	notes on (any three):	15
	(i)	Air lift membrane bioreactor	
	(ii)	Concept of Biodegradation	
	(iii)	Bioremediation of Alkaline Soil	
	(iv)	Phase-I	
	(v)	Tertiary treatment.	

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