(i) Printed Pages: 2

Roll No.

(ii) Questions :9

Sub. Code:

3 4 7 5

Exam. Code:

Code: 0 4 3 6

M.Sc. Bio-Technology 2nd Semester

(2054)

ENVIRONMENTAL BIOTECHNOLOGY

Paper: MBIO-204

Time Allowed: Three Hours]

[Maximum Marks: 80

- Note: Attempt *five* questions in all. Question No. 1 is compulsory. Select *one* question from each unit. All questions carry equal marks.
- 1. (a) Define Photochemical smog.
 - (b) What is Composting?
 - (c) Give names of aerobes involved in secondary wastewater treatment.
 - (d) What are Bioindicators?
 - (e) What is COD? How is it significant?
 - (f) What are bioplastics? Give examples.
 - (g) Define Sanitary landfills.
 - (h) What are Xenobiotics?

 $2 \times 8 = 16$

UNIT—I

2. (a) How is Air Quality monitored? Discuss.

8

(b) Discuss methods to measure Noise Pollution.

8

3.	(a)	Discuss the fate of pesticides in soil.	8
٥.			8
	(b)	UNIT—II	
à			vater
4.		porate on design and working of UASBR for wastew	16
	Describe effluent characteristics and treatment strategies for		
5.			16
	Tan	neries and Distilleries.	
		UNIT—III	
6.	(a)	List factors contributing to Recalcitrance of Xenobio	tics.
	3 5		6
	(b)	Deliberate on Microbial degradation of Com	plex
	(0)	Hydrocarbons in the environment.	10
7.	(a)	Elaborate on the principle and methodology of Integrated	
	(a)	Pest Management.	10
	a \$		otics
	(b)	Write a note on Ecological Considerations of Xenobi	6
			U
		UNIT—IV	
8.	(a)	Discuss the characteristics and composition of Mun	icipal
		Solid Waste.	10
	(b)	Write a note on Bioleaching.	6
9.	(a)	What is the principle of Remote sensing and GIS? D	iscuss
	(4)	application in Ecological mapping.	8
	(b)	What are Bioplastics ? Discuss environmental signif	icance
	(0)		8
		and properties.	
			200