No. of Printed Pages : 3

treatment.

MEVE-013

M. Sc. (ENVIRONMENTAL SCIENCE) (MSCENV)

Term-End Examination

December, 2022

MEVE-013 : ENVIRONMENTAL BIOTECHNOLOGY

Time : 3 Hours				Maximum Marks : 100			
N	ote: (i) A	Inswer a	ny ten q	question	ns.		
	(ii) A	ll questi	ons cari	ry equa	l marks.		
1.	Define E	nvironm	ental B	iotechr	nology. I	Describe	
	its scope a	and appl	ications	3.		10	
2.	What is waste ? Describe various types of						
	and their composition.					10	
3.	Elaborate	e the	role	of	enviror	nmental	
	biotechno	logy iı	n mui	nicipal	solid	waste	

- Describe various types of biofertilizers and their application for soil improvement. 10
- 6. What is biodegradation ? Describe biodegradation of natural compounds. 10
- Give treatment technologies for xenobiotic compounds.
 10
- 8. Describe the problems caused by plastic waste. How are bioplastics useful for environment ? 10
- What are biomarkers ? Describe the role of biomarkers in environmental monitoring. 10
- 10. What is air pollution ? Describe howbiotechnology can be used for the air pollutioncontrol and management. 10

- Describe *ex-situ* bioremediation techniques and their advantages and limitations.
- 12. What is phytoremediation ? Give any three techniques of phytoremediation and their advantages.
- 13. Describe biobleaching and biomining. Give the advantages and limitation of techniques. 10
- 14. What are plant growth promoting rhizobacteria ? Describe the role of biotechnology in insect/pest management. 10

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