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18BT751

Semester B.E. Degree Examination, Feb./Mar. 2022 **BT** for Sustainable Environment

Time: 3 hrs. Max. Marks: 100

	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	odule.				
		Module-1					
1	a.	Discuss various types of Water pollutants and its sources.	(10 Marks)				
	b.	Write State and Central Waste Water quality and its various discharge standards.	(10 Marks)				
		OR					
2	a.	Explain physical and chemical characteristics of Waste Water.	(10 Marks)				
	b.	Write characteristics and estimation of Waste Water flow rate.	(10 Marks)				
		Module-2					
3	a.	Explain process involved in Secondary Water Treatment.	(10 Marks)				
b.		Discuss the different methods involved in Sludge treatment and its disposal.	(10 Marks)				
	0.	Discuss the uniterest methods involved in stange treatment and its disposal.	(101111111)				
		OR					
4	a.	Explain the mechanism of Ion- Exchange and Reverse Osmosis process in W	Jaste Water				
		Treatment.	(08 Marks)				
	b.	Describe the methods involved in treatment of Waste Water released by Paper					
		Industry.	(12 Marks)				
		Madala 2					
_	0	Module-3 Write the electification and proportion of Air Pollutants	(10 Marks				
5	a. b.	Write the classification and properties of Air Pollutants. Discuss Ambient and Stack Sampling method.	(10 Marks)				
	U.	Discuss Ambient and Stack Sampling method.	(10 Marks				
		OR					
6	a.	Discuss the Control method and equipments for treating particulate and gaseous pollutants.					
			(10 Marks				
	b.	Give a detailed note on Equipment and different approaches for Noise control.	(10 Marks				
		Module-4					
7	a.	Explain Conventional Fuels and their Environmental impacts.	(10 Marks				
,	b.	Discuss Biotechnology inputs in producing good quality natural fibers.	(10 Marks				
	0.	Discuss Biotecimiology inputs in producing good quanty succession	(1000) the sector of 1000				
		OR					
8	a.	Discuss the process involved in recovery of Energy from Urban Waste.	(10 Marks				
	b.	Write the method for producing Fuels and Chemical from Crops.	(10 Marks				
0		Module-5	(00 Marks				
9 a.		Discuss the characteristics and types of Solid Waste.	(08 Marks (12 Marks				
	b.	Explain how Biotechnological process involved in Solid Waste Management.	(12 Mial KS				
		OR					
10	a.	CD: 1: 1 1 T	iary Waste				

10 a. Explain Biotechnological process involved in treatment of Biomedical and Diary Waste. (12 Marks)

b. Describe the process involved in Petroleum Waste treatment. (08 Marks)