Q.P. Code :08364

[Marks:60]

	N.B: 1. Draw labeled diagrams wherever required.2. Figures to the right indicate full marks.	
	3. All questions are compulsory and carry equal marks	
Q.1 a)	Classify the varieties of Industrial waste.	06
b)	How is 'Sulphates' removed from Industrial waste? OR	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Q.1	Discuss in detail the treatment of Industrial waste by biological process.	12
Q.2 a)	Explain the treatment of Agricultural waste.	06
b)	Discuss Anaerobic treatment of liquid waste. OR	06
Q.2	Citing example give the functioning of a bioreactors to treat liquid waste.	12
Q.3 a)	How does bioremediation help in the treatments of solid waste?	06
b)	Discuss the role of thermal conversion to treat solid waste. OR	06
Q.3	Citing examples explain the use of bioreactors to treat solid waste	12
Q.4 a) b)	Discuss the significance of 'Wet Air oxidation in the treatments of Hazardous waste'. Citing example, explain in detail biochemical pathway of Hazardous waste remediation.	06 06
Q.4	OR What should be the characteristics of hazardous waste for biodegradation and add a note or the	12
ζ	management of hazardous waste.	
Q.5	Write brief notes (any 3)	12
(45)	a) Attached growth system for waste treatment.b) Sludge disposal with an example.	
	b) Sludge disposal with an example. c) Phosphorous removal from waste.	
	d) Gaseous bioremediation.	
50.0	e) Incineration of hazardous waste.	
999	f) Bioremediation of petrochemicals.	
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Please check whether you have got the right question paper.

[Time: 2½ Hours]