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B.Tech. Seventh Semester (Food, Pulp & Paper, Oil & Paint & Petro. Tech.) (CGS)

11061: Elective - I: Industrial Waste Treatment 7 CT 04

P. Pages: 2



AW - 3395

Time : Three Hours			Max. Marks	
ist.	Notes: 1. 2. 3. 4. 5. 6. 7.		Answer three question from Section A and three question from Section B. Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Diagrams and chemicals equations should be given wherever necessary. Illustrate your answer necessary with the help of neat sketches. Discuss the reaction, mechanism wherever necessary. Use of pen Blue/Black ink/refill only for writing the answer book.	
			SECTION – A	
1.	a)	What ar	re the characteristic of lakes? Discuss the common environmental problem in lakes.	7
	b)	What and details.	re agencies working in India for prevention and control of pollution? Discuss in	7
			OR '	
2.	a)	Discuss	role of chlorofluorocarbon in depletion of ozone layer.	7
	b)	Discuss	by product and salvageable waste in details.	7
3.	a)	Describ	e air prevention and control of pollution act 1981.	7
	b)	Describ	e the "MINAS" and plan of action for sugar industries.	6
			OR .	
4.	a)	Draw ne	eat sketches of different types of micro-organisms present in water.	5
	b)	How wi	Il you determine dissolved oxygen?	8
5.			osmosis and reverse osmosis? How we can remove pollutants from waste water by everse osmosis.	13
			OR	
6.	a)	What is	neutralization? Discuss chemical coagulation in details.	7
	b)	What is details.	difference between aerobic and anaerobic lagoons? Discuss anaerobic Lagoons in	6



www.FirstRanker.com SECTION - B

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7.	a)	Explain hazardous waste with suitable examples. Give there types.	7		
*	b)	What are the reusable waste? Discuss them in details.	7		
		OR			
8.	a)	How we can recycle waste in chemical industry? Give suitable example.	7		
	b)	Describe dissolved air floatation system for sludge treatment.	7		
9.	a)	Explain the terms.	6		
		i) Floating bed scrubber. ii) Venturi bed scrubber.			
	b)	Describe fabric filters with neat sketch.	7		
		OR			
10.	a)	Discuss catalytic reduction of NOx using methane.			
	b)	Explain following terms.	6		
		i) Critical field. ii) Particle changing.			
11.		Draw the manufacture process of cement industry. What are the sources of waste from cement industry? Describe the treatment given to gaseous and liquid waste.	13		
		OR			
12.		Give sources, characteristic of waste from sugar industry. With a neat flow diagram explain the pollution control measures in sugar industry.	13		
