(b)

wastewater treatment.

Sr. No. 002517

December 2023

B.Tech (CIVIL) (Reappear) 5th Semester Environmental Engineering and Management (PCC-CE306R)

Time: 3 Hrs.	Max. Marks: 75		
Instructions: 1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.			
2. Answer any four questions from Part -B in detail.			
3. Different sub-parts of a question are to be attempted adjacent to each other.			
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PART -A			
Q.1 Briefly answer the following questions:			
(a) Differentiate between coagulation and flocculation.	$(1\frac{1}{2})$		
(b) What is the need for disinfection during the wastewater treatment process?	(1½)		
(c) Define sullage.	(1½)		
(d) Enlist various National River cleaning plans.	(1½)		
(e) How do automobile engines contribute to urban air pollution?	(1½)		
(f) Differentiate between aerobic and anaerobic treatment systems of	(1½)		
wastewater. (g) Enlist various effects of improper waste disposal on the environment.	(1½)		
(h) What kind of devices are used for measurement of noise level, explain briefly?	(1½)		
(i) What are the specific plumbing considerations for high-rise buildings?	(1½)		
(j) How color-coding bins help in safe disposal of biomedical waste?	(1½)		
PART -B			
O C C VALUE A LAND ON MINIAC	(5)		
Q.2 (a) Write short note on MINAS.	(5)		
(b) Explain the different water quality requirements for various beneficial uses.	(5)		
(c) What is the need for planned water supply schemes?	(3)		
Q.3 (a) What are the different factors which need to be considered during designing of W/S system, explain briefly?	(7½)		

Q.4 (a) Briefly explain about the various issues encountered during maintenance of (7½) sewers. Also enlist the methods employed to resolve the issues.

Give a detailed account of various advanced treatment techniques used for

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Page 1 of 2

 $(7\frac{1}{2})$

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	(b)	Briefly explain about pollutants generated from improper disposal of sewage.	(7½)
. Q.5	(a)	Give a detailed account of different techniques used for sampling of gaseous pollutants.	(7½)
	(b)	Briefly explain about the engineering devices to control particulate pollutants from industries.	(7½)
Q.6	(a) (b) (c)	What noise indices are used for measurement of noise level? Enlist about various control measure of noise pollution. Write brief note on collection of municipal solid waste in India.	(5) (5) (5)
Q.7		Write short note on the followings: i) Integrated Solid Waste Management ii) Brake Pressure Tanks iii) Role of Govt. authorities in controlling pollution	3 = 15)

Explain the different water quality requirements for various beneficial