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		APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	C CKI
	Sev	venth Semester B.Tech (Hons.) Degree Examination December 2024 (2021 Admissi	on)
			ERU
		Course Code: CET499	
Max		Course Name: ENVIRONMENTAL POLLUTION CONTROL TECHNIQUES  Marks: 100 Duration: 3 1	
	10 17	Duration: 5	nour
		PART A  Answer all questions, each carries 3 marks.	Mark
1		Explain different types of environmental pollution.	(3)
2	What are wet collectors or scrubbers?		(3)
3		Write short note on Bioremediation of Wastewater.	(3)
4		Give a general layout of a waste treatment plant.	(3)
5		Explain volume reduction method for pretreatment of industrial waste.	(3)
6		List out the elements in Environmental Management System.	(3)
7		List out physical treatment methods for hazardous waste.	(3)
8	What are the drawbacks of incineration?		(3)
9		What are the objectives of Environmental Management Plan (EMP)?	(3)
10		List out any three key contributions of impact assessment and mitigation to a	(3)
		good EIA.	
		PART B	
		Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)	Explain different causes of air pollution.	(7)
	b)	What are the various approaches to minimize exhaust emissions from automobiles?	(7)
		OD	

12 a) Explain different air pollution mitigation measures. (7)

b) Explain principle and working of Electrostatic precipitators. (7)

## **Module II**

13 a) Explain with a neat sketch, the working of an activated sludge process. State the (14) merits and demerits of the process as well.

OR

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14	4 a)	Explain skimming tank in waste water treatment and differentiate passive	(14)
		skimming and active skimming.	(14)
	n gári	Module III	
15	,	rate analysis method for the treatment of industrial waste.	(7)
	b)	Explain equalization and proportioning methods for pretreatment of industrial waste.	(7)
		OR	
16	a)	Explain any three physical characteristics of Industrial wastes.	(8)
	b)	Explain Reversing Anaerobic Upflow System (RAUS).	(6)
	-	Module IV	
17	a)	Explain(a)Sedimentation (b)Carbon Adsorption (c) Distillation	(9)
	b)	Explain thermal treatment of hazardous waste.	(5)
		OR	
18	a)	Explain (a)Reverse osmosis (b)Flocculation (c)Filtration	(6)
	b)	Explain any two chemical treatment methods for hazardous waste.	(8)
		Module V	
19	a)	List out different Environmental protection laws and acts in India with respect to pollution.	(5)
	b)	Explain different methods for the identification of environmental impacts of a project.	(9)
		OR	
20	a)	List out the important legislations for environmental protection.	(5)
		Explain impact assessment and mitigation of environmental impacts.	(9)
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