PRN:		Course Code :	CET 2603

Third Year **B. Tech** End Semester Examination Summer 2024

Sewage Disposal Engineering and Pollution

Day and Date: 25 MAY 2024, Sat Max Marks: **100**

Time : 02:00PM To 05:00PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain factors affecting for selection of material of a sewer.	08	L2	CO1
	b)	Elaborate various types of sewerage system.	08	L3	CO1
		OR			
	b)	Explain various sources of wastewater flow.	08	L3	CO1
Q.2		**Attempt the following**			
	a)	Explain flowchart of sewage treatment plant with sketch	08	L2	CO2
	b)	Discuss skimming tank with its sketch	08	L3	CO2
		OR			
	b)	Design Primary Settling tank of rectangular shape for a town having population of 50000 with a water supply of 180 litres per capita per day	08	L3	CO2
Q.3		**Attempt any two from the following**			
	a)	Explain 1) Hydraulic retention time 2) Volumetric BOD loading 3)Food to Microorganism ratio 4)sludge retention time	08	L3	CO2
	b)	What are various methods for final disposal sludge.	08	L3	CO2
	c)	Explain trickling filter with sketch.	08	L3	CO3
Q.4		**Attempt any two from the following**			
	a)	Explain concept of self purification and DO sag curve.	08	L3	CO3
	b)	Explain septic tank with its design considerations.	08	L3	CO3
	c)	Explain any three methods of disposal of wastewater	08	L3	CO3
Q.5		**Attempt any Two of the following**			
	a)	Discuss functional outlines of solid waste management system.	09	L4	CO4
	b)	Elaborate various types of municipal collection methods of solid waste.	09	L4	CO4
	c)	Explain solid waste management. What are characteristic of solid waste?	09	L4	CO4
Q.6		**Attempt any Two of the following**			
	a)	Explain acid rain. Give its effect and control on it.	09	L4	CO4
	b)	Outline various air pollution control methods.	09	L4	CO4
	c)	Write note on photochemical smog.	09	L4	CO4

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