## M.E. First Semester (Mechanical Engineering (Thermal Engineering)) (New-CGS)

## 13512 : Elective-I : Environmental Pollution control : 1 MTE 5

P. Pages: 2 Time: Three Hours



AW - 3535

Max. Marks: 80

	Notes	: 1. 2. 3. 4. 5. 6. 7. 8. 9.	m mai i i laboration for similar the answer book.	
			SECTION - A	
1.	a)	Define	air pollution & differentiate natural & man-made air pollution.	7
1.		Enume	erate the different major air pollutants, their characteristics, sources & health effects nan beings in a tabular form.	6
*			OR	
2.	a)	How &	which of the air pollutants adversely affect the plant & animal life on Earth.	7
	b)		short note on acid rain & its harmful effect on the environment.	6
3.	a)		e "Municipal Solid Waste" (MSW) & explain the necessity of its safe disposal.	7
	b)	Differ	rentiate between "composting" & "vermi-composting" & explain their utilities in sal off society's solid waste.	6
		diopos	OR	
				7
4.	a)		ify various solid wastes? Discuss their effects.	6
	b)		ify the materials recovered from MSW.	
5.	a)	Enun pollu	nerate with examples the major sources of surface water pollution & ground water tion.	7
	b)	Disc	uss waste water treatment with neat sketch.	7

## SECTION - B

6.	a) b)	<ul> <li>Differentiate between</li> <li>i) Sound &amp; noise.</li> <li>ii) Loudness &amp; pitch of noise.</li> <li>iii) Threshold of pain &amp; threshold of hearing for a human ear.</li> </ul> Briefly discuss the sources, effects & control of noise pollution.	7
		OR	
7.	a)	Define radioactivity? Mention sources of radioactivity.	6
	b)	Discuss oil pollution? What are its sources & its impact on the environment.	
8.	a)	What are sources of air pollution in 'Cement Industry".	
	b)	What methods of control are adopted to control dust in Cement Industry.	7
		OR	4
9.		Explain sources of air pollution & its control in thermal power plant.	13
10.		Write short notes on.	
		i) Multiple cyclones.	
		ii) Cyclones in series.	

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