		Reg	g. No.									
	Question Paper Code		12307									
	M.E. / M.Tech - DEGREE EX	AMI	NATI	ON	S, N	ov	/ D	DEC	202	3		
	First	Seme	ester									
	M.E Industrial	Safe	ty Eng	gine	ering	g						
	20PISPC102-ENVIR	ONN	MENT	AL	SAF	FET	Y					
	(Regulat	tions	2020)									
Dur	ation: 3 Hours							Μ	ax. N	Mar	ks: 1	100
	PART - A (10 Answer AI				(S)							
1.	Air pollution may lead to climate chan										K-Le	a rks, vel, CO 2,CO1
2.	Mention the environmental hazards due to ozone layer depletion.										2,K2	2,CO1
2. 3.	Differentiate between sewage and sewerage.											2,CO2
4.	What are the chemicals dissolved in water due to effluent discharge from textiles?									n	2,K2	2,CO2
5.	How are the solid hazardous wastes di	spose	ed into	the	land	!?					2,KI	1,CO3
6.	Differentiate between hazardous and non-hazardous wastes.										2,K2	2,CO3
7.	Mention any two-control equipment for removing fine particulate matters.									5.	2,K2	2,CO4
8.	Define electrostatic precipitation.										2,K2	2,CO4
9.	Which of the following chemical is a) DDT, b) PCB, c) Sodium chloride,			mfu	l to	hur	nar	ı be	ings	?	2,K3	3,CO5
10.	Is hydropower a good alternative? Just			swe	r.						2,K2	2,CO5
	PART - B (5 ×	< 13 =	= 65 M	ark	s)							
	Answer AI	LL O	uestion	15								

11. a) What are the measures taken by the government to reduce vehicular ^{13,K1,CO1} emissions? How did the quality of air is improved?

OR

- b) How is air pollutants classified? What are the different sources of air ^{13,K1,CO1} pollutants? Give examples.
- 12. a) Discuss the various types of Corrosion prevention and control ^{13,K3,CO2} techniques in industrial effluents.

OR

b) What is meant by water pollution and mention the common types of *13,K1,CO2* pollutants? Also list the different types of sources of water pollution.

13. a) Describe & list the various environmental legislation for municipal ^{13,K2,CO3} solid waste.

OR

- b) Explain in detail about 3Rs Principle. How can we follow the 3R ^{13,K3,CO3} principle as an individual?
- 14. a) Enumerate and briefly explain various sources of radioactivity in ^{13,K3,CO4} environment and write about its control measures.

OR

- b) Tabulate the National air quality standards for residential, Industrial ^{13,K3,CO4} and sensitive areas.
- 15. a) Explain in detail about the utilization of the following safer ^{13,K3,CO5} renewable sources of energy (i) Solar Power (ii) Wind Power (iii) Hydro Power.

OR

b) Briefly explain about the emissions and effluent discharge from dying ^{13,K3,CO5} and pigment industries and suggest some control measures.

PART - C $(1 \times 15 = 15 \text{ Marks})$

- a) "The automobile is one of the worst inventions made by mankind". ^{15,K3,CO6} Justify this statement by focusing on the environmental impact on environment. Review the approach to reduce the usage of automobile.
 OR
 - b) Give a brief description about the pollutants and its effects emitted ^{15,K3,CO6} from the following industries: (i) Textile industries, (ii) Petroleum and Petroleum product industries, (iii) Tanneries.