Total No. of Printed Pages:2

		T.E (Civil) (Semester EXAMINATIO Air and Noise Po	N 101.1 2022	
		NAME OF THE OWNER OWNER OF THE OWNER OWNE	[Total Marks :	100]
Duratio	n : Three Hours			
Instructi		ii) Each question i iii) Answer total 5	ated to the right of the question. s of total 20 marks. questions, 2 questions from Part A, 2 questions from part C, ditional data if required and mention it clearly.	n Part
		Par	rt A	
				10
100	a) Define air p	ollution in general and als	o as per Engineers Joint Council USA, Indian Council	1.0
Q.1	Standard Ins	utition, American Medical	tant and secondary pollutant.	06
	The Resentible	Delacett me business		04
	c) Define the fi	ollowing terms		
	i) Aerosols i	I) Ivitais	The state of the s	12
	Describe the	mechanism of action of a	ir pollutants on humans along with neat diagram	
Q.2	and also hea	dth effects on humans.	- Communi	08
	b) Describe ac	d rains and its effects on c	nyhomiem	922
Q.3	a) Describe all		dong with neat diagram with all technical details, ements in the dispersion in the dispersion of air	10
			Part B	
			ntrol equipment? What are the main principles of	12
Q.4				
	litres of or	59.7 tonnes per year, NO2	culate matter emitted is 4.0 tonnes per year, SC emitted is 7.5 tonnes per year, HC emitted is 0.5 5.0.52 tonnes per year, Calculate the height safe dispersion of the poliutants.	
	Chimney n	equired to be provided to	4 Aut ure	its 12
			ors (ESP) along with neat diagram and what are	
Q.5	advantages	and disser of soire noil	ors (ESP) along with neat diagram and what are ution on health and Indian noise standards. I Standard.	and 08
	b) Describe t acceptable	noise levels as per Indian	Standard	
			4	

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Q.6	a) Describe the wet collectors along with neat diagram and what are its advantages and disadvantages?	12
	b) What are the acceptable noise levels of outdoor and Indoor noise levels as per Indian standard.	08
	Part C	
Q.7	Explain the theory of formation of photochemical smog and what are its effects on environment?	10
	b) Describe the Greenhouse effects along with neat diagram and impact of greenhouse effect on environment	10
Q.8	Write short notes on the following	
	i) Settling chamber	06
	ii) Laboratory analytical methods of particulate concentration	07
	iii) Ambient Air Quality Standards	07