			Reg. No.										
		Question Paper Co	ode	1	12205								
		B.E. / B.Tech DEGREE EX. Sevent Civil F	h Sem	ester	DNS,	NO	V/	DE	C 2	023			
Civil Engineering 20CYOE905 - AIR POLLUTION AND CONTROL ENGINEERING (Regulations 2020) Departieur 2 Harry Markey 100													
Duration: 3 HoursMax. Marks: PART - A (10 × 2 = 20 Marks) Answer ALL Questions											(S: 1	00	
1.	Def	ine air pollution.									K-	Mark Level, 2,K1,C	, <i>CO</i>
2. 3.		w the layers of the atmosphere. Ine atmospheric stability.										2,K1,C 2,K2,C	
4. 5.		at do you mean by stack plume pat ntion any two control equipment fo		oving	fine p	oarti	cul	ate r	natt	ers.		2,K2,C 2,K2,C	
6. 7.	Write two advantages of gravity separators. Mention any four control equipment for removing gaseous contaminants.										2,K2,CO4 2,K1,CO5		
8. 9.	List the factors influencing the efficiency of absorption process. Write the sources of indoor air pollution.										2,K2,CO5 2,K2,CO6		
10.	Def	ine sick building syndrome.									2	P,K1,C	'06
11	2)	PART - B (5 × Answer Al	LL Qu								2 2	8,K2,C	r01
11.	a)	(i) Explain the scales of air pollut(ii) Explain the various sources of O	of air p	olluti	on.							,K2,C	
	b)	(i) Enumerate the effect of air pol(ii) Write the national air quality s areas.	llution					nd r	esid	entia		8,K2,C 5,K2,C	
12.	a)	Describe diffusion theories in the O		kt of a	ir pol	lutio	on o	cont	rol.		1.	3,K2,C	203
	b)	Describe with neat sketches th stability classes.	e plui	me di	ispers	ion	un	der	dif	feren	ι t ¹ .	3,K2,C	CO3
13.	a)	Explain with neat sketch the disadvantages of an Electrostatic			rincip	le,	adv	anta	ages	an	d 1.	3,K2,C	CO4
K1 –	Reme	mber; K2 – Understand; K3 – Apply; K4	– Analy	vze; K5	– Eva	luate	e; Ko	6 – C	reate	2	12	205	

OR

- b (i) Discuss in detail about the factors affecting selection of control *8,K2,CO4* equipment.
 - (ii) Explain the gravity separators. *5,K2,C04*
- 14. a) Explain with neat sketch of the working principle and monitoring of an ^{13,K2,CO5} incinerator.

OR

- b) (i) Write a short note about condensation process with example.
 (ii) Explain briefly about bio-filters.
 5,K2,C05
- 15. a) What are the common sources and effect of noise pollution? List out ^{13,K2,CO6} the control and preventive measures of noise pollution.

OR

b) Define IAQ. What causes Indoor Air Pollution? List few Indoor Air ^{13,K2,CO6} Pollutants and their health effects.

PART - C (1 × 15 = 15 Marks)

16. a) Discuss in detail about the effects of air pollution on human beings, ^{15,K2,CO2} animals and vegetation.

OR

b) How air pollutant produces economic effects. Explain in detail. 15,K2,CO2