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APJ ABDUL KALAM TECHNO		1 2 W	12
Eighth Semester B.Tech Degree Supplementary	Examination August 20	1219 S 319/5	124
71	Examination August 20	24 (2019 Scheme)	*/
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Course Code: CET464 Course Name: AIRQUALITY MANAGEMENT

I	Max	. Marks: 100	
		PART A Duration:	3 Hours
		Answer all questions, each carries 3 marks.	Marks
1		Distinguish between point source and line source of air pollution.	(3)
2		List any three major sources of air pollutants.	
3		Define Greenhouse effect and Global Warming.	(3)
4		How does air pollution affect vegetation?	(3)
5		Discuss the effect of inversion on atmospheric stability.	(3)
6		List the assumptions in Gaussian Plume Model.	(3)
7		Write a note on Stack Sampling.	(3)
8		Bring out the significance of National Ambient Air Quality Standards.	(3)
9		Discuss the application of Spray tower in air pollution control.	(3)
10)	What air pollutants do fabric filters reduce and how?	(3)
			(3)
		PART B Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)		
•	,	Discuss any three classification of air pollution with examples.	(9)
	b)	How is Bhopal gas tragedy important in the history of air pollution incidents?	(5)
		OR .	
12	a)	Enlist any four major air pollution episodes and compare the causes and effects of	(14)
		any three of them.	(= -)
		Module II	
13	a)	Enumerate the sources and effects of Carbon monoxide.	(6)
	b)	Describe the effect of air pollution on materials and environment.	(8)
		OR	(0)
14	a)	Define indoor air pollution. Describe the major sources and effects and methods	(10)
		to control it.	(10)

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	b)	Discuss the effects of particulate matter in human health	(4)
		Module III	
15	a)	Discuss the meteorological factors which influence the dispersion of air	(8)
		pollutants.	
	b)	Explain Pasquil's stability curves in air pollution studies.	(6)
		OR	
16	a)	Compare Environmental Lapse rate and Adiabatic Lapse rate.	(6)
	b)	What are the different types of Plume? With neat sketches explain any three.	(8)
		Module IV	
17	a)	Enlist any six methods used for sampling of particulate matter pollutants and	(14)
		discuss the working of any two.	
		OR	
18	a)	Explain the various methods used for sampling of gaseous air pollutants.	(14)
		Module V	
19	a)	With neat sketch, explain the working of a cyclone separator.	(7)
	b)	Write a note on adsorption in air pollution control.	(7)
		OR	
20	a)	Discuss any two source correction methods for air pollution control.	(7)
	b)	What is the role of combustion in air pollution control?	(7)