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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B. TECH DEGREE EXAMINATION(R&S), MAY 2019

Course Code: CE374

		Course Couc. CL374	
		Course Name: AIR QUALITY MANAGEMENT	
Ma	x. M	Duration: 3	Hours
		PART A	
		Answer any two full questions, each carries 15 marks.	Marks
1	a)	Define air pollution? Enlist the normal composition of atmospheric air?	(4)
	b)	Write a short note on effects of air pollution on materials?	(4)
	c)	Define Indoor air pollution? Write a short note on major indoor air pollutants, effects of indoor air pollution and remedial measures of indoor air pollution?	(7)
	a)	Differentiate between primary and secondary air pollutants?	(4)
2	b)	Write a short note on Green house effect?	(4)
	c)	Briefly explain the classification of air pollutants?	(7)
3	a)	Discuss the various effects of air pollution on human life and plant life?	(9)
	b)	Write a short note on any one major air pollution episode?	(6)
		PART B	
		Answer any two full questions, each carries 15 marks.	
4	a)	Enlist the major meteorological factors influencing air pollution?	(4)
	b)	Write a short note on Gaussian Plume model?	(4)
	c)	Explain the term atmospheric inversion? What are the different types of	(7)
		atmospheric inversion?	
	a)	Write a short note on atmospheric stability?	(4)
5	b)	Enlist the major disadvantages of Gaussian plume model?	(4)
	c)	Define the term Lapse rate? Explain the different types lapse rate in air pollution	(7)
8		studies?	
6	a)	Define the term 'Plume' in air pollution? Enlist and explain the different types of	(9)

plume behaviour with neat sketches?

	b)	Enlist the major assumptions of Gaussian plume model?	(6)
		PART C	
8		Answer any two full questions, each carries 20 marks.	
		YETREBUILD AND DESCRIPTION OF THE STATE OF T	
	a)	Enlist and explain the various principles to be followed for correct sampling of air?	(7)
7	b)	Write a short note on National ambient air quality standards (NAAQS)?	(7)
	c)	Explain the working of an Electrostatic precipitator for Particulate emission	(6)
		control?	
8	a)	Explain in detail about the various methods used for the sampling of gaseous air pollutants?	(7)
	b)	Enlist and explain any three particulate emission control methods?	(7)
	c)	Write a short note on Air quality index (AQI)?	(6)
	a)	Explain in detail about the various methods used for the sampling of particulate air	(12)
9		pollutants?	
	b)	Give a brief description about the various gaseous emission control methods? ****	(8)
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