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APJ ABDUL KALAM TECHNOLOGICAL UNIVERS

Sixth Semester B.Tech Degree Regular and Supplementary Examination

## **Course Code: CE374**

## Course Name: AIR QUALITY MANAGEMENT

		Course Name. AIR QUALITY MANAGEMENT	
Ma	x. M	arks: 100 Duration: 3	3 Hours
		PART A	Mada
1	a)	Answer all questions, each carries 15 marks.  Explain the different types of air pollutants, their sources and effects.	Marks (8)
	b)	Describe the various components of Environment.	(7)
2	a)	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?	(8)
	b)	Define green house effect.	(4)
	c)	What are occupational pollutants?	(3)
3	a)	Explain the formation of photochemical smog and its effects.	(7)
	b)	Briefly explain any two air pollution episodes.	(8)
		PART B	
4	a)	Answer any two full questions, each carries 15 marks.  Explain the various meteorological factors affecting the dispersion of air Pollutants.	(7)
	b)	Explain the causes and effects of different types of inversions.	(8)
5	a)	Explain Pasquill's stability curves.	(8)
	b)	Explain the temperature and pressure relationships.	(7)
6.	a)	Define sea breeze and valley breeze.	(6)
	b)	Define the term 'Plume' in air pollution? Enlist and explain the different types of	(9)
		plume behaviour with neat sketches.	
		PART C	
7	2)	Answer all questions, each carries 20 marks.	(10)
7	a)	Write short note on Air Quality monitoring and Air Quality standards.	(10)
_	b)	Discuss the principles to be followed to ensure correct sampling of air pollutants.	(10)
8	a)	Describe the various control methods for the removal of gaseous pollutants.	(10)
	b)	Explain in detail about the various methods used for the sampling of particulate air pollutants.	(10)
9	a)	Explain and Electrostatic Precipitation methods.	(8)
	b)	Write short note on Air Quality Index.	(6)
	c)	Explain Filtration method of control of particulate matters.	(6)