F

Reg No.:_____

Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth semester B.Tech degree examinations (S), September 2020

Course Code: CE374 Course Name: AIR QUALITY MANAGEMENT

Max. Marks: 100				Duration: 3 Hours
PART A				
			Answer any two full questions, each carries 15 marks.	Marks
1		a)	Explain major air pollution episodes.	(10)
		b)	Explain photochemical smog.	(5)
2		a)	Explain effect of air pollution on human health and plants.	(8)
		b)	Explain green house effect.	(7)
3		a)	Explain primary and secondary air pollutant with example.	(6)
		b)	Explain effect of carbon monoxide on human health.	(4)
		c)	Explain components of atmosphere.	(5)
			PART B	
			Answer any two full questions, each carries 15 marks	•
4	a)	E	xplain the effect of meteorological factors on dispersion of air pollutant.	(9)
	b)	E	xplain advantages and disadvantages of Gaussian plume model.	(6)
5	a)	E	xplain with neat sketches various plume behavior.	(10)
	b)	W	rite short note on atmospheric stability.	(5)
6	a)	D	efine inversion .Explain different types of inversion.	(10)
	b)	А	ssumptions in Gaussian plume model.	(5)
			PART C	
Answer any two full questions, each carries 20 marks.				
7	a)	W	rite short note on NAAQS.	(8)
	b)	E	xplain various control methods for the removal of gaseous pollutants.	(12)
8	a)	E	xplain the working of an Electrostatic precipitator for particulate emission	a control. (8)
		А	lso explain its advantage and disadvantage	
	b)	E	xplain high volume air sampler	(12)
9	a)	E	xplain various methods used for the sampling of particulate air pollutants	(14)
	b)	W	Vrite short note on AQI	(6)
