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Total Pages: 1

Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2017

Course Code: CE371

Course Name: ENVIRONMENT AND POLLUTION (CE)

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Max. Marks: 100 Duration: 3 Hours					
		PART A			
		Answer any two full questions, each carries 15 marks.	Marks		
1	a)	"Everything is connected to everything else" comment on it.	(5)		
	b)	Illustrate the population growth curve in detail.	(5)		
	c)	What are the major pollution problems caused by urban areas?	(5)		
2	a)	Which do you think is a greater danger to man?	(8)		
		i) Pesticides used by farmers and householders or	()		
		ii) Toxic substances released by industrial plants.			
		Justify your answer.			
	b)	List out the major types of particulate matter, their sources and effects.	(7)		
3	a)	What do you mean by photochemical smog and how is it produced?	(5)		
	b)	What are the main sources and effects of fluoride emissions to the atmosphere?	(5)		
	c)	What is lapse rate and stability of atmosphere?	(5)		
	PART B				
	Answer any two full questions, each carries 15 marks.				
4	a)	Cooling towers are used in many industrial plants as a means for increasing water	(5)		
		cycle within the plant. Outline the advantages and disadvantages of their			
		approach			
	b)	Differentiate the water quality characteristics between surface water and	(5)		
		groundwater sources.			
	c)	What is BOD? What is its environmental significance?	(5)		
5	a)	Give the technical, economical and psychological considerations taken into	(10)		
		account when you would run a sanitary landfill operation in your city.			
	b)	Give the importance of pyrolysis in Municipal solid Waste Management.	(5)		
6	a)	Give the importance of C/N ratio in Municipal solid waste disposal.	(5)		
	b)	Elaborate the various MSW sources, its classification and characteristics	(10)		
		PART C			
		Answer any two full questions, each carries 20 marks.			
7		What are the various problems associated with management of plastic wastes?	(5)		
	b)		(5)		
	c)	Identify the various environmental problems of "Ship breaking"	(5)		
	d)	Write the importance of pH of soil to control the soil pollution	(5)		
8	a)	Identify the various land pollution abatement process and explain each.	(8)		
	b)	What are the different problems encountered in open dumping of wastes?	(5)		
	c)	List the major sources and effects of land pollution	(7)		
9	a)	Mention typical values of acceptable levels of sound as per the Is codes for:	(10)		
		i) Rural areas ii) Urban residential areas			
	1 \	iii) City areas iv) Industrial areas	(10)		
	b)	Enlist and explain the measures to be adopted to protect the sound reception.	(10)		
