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Code No: RT32016A

Time: 3 hours

R13

SET - 1

III B. Tech II Semester Regular/Supplementary Examinations, April - 2018 ENVIRONMENTAL POLLUTION AND CONTROL

(Civil and ECE)

Maximum Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in $\ensuremath{\textbf{Part-A}}$ is compulsory

3. Answer any **THREE** Questions from **Part-B**

PART -A

1	a)	Enlist various indoor and outdoor pollution sources.	[3M]		
	b)	Explain the significance of Equalization in Industrial Waste water management	[4M]		
	c)	What are solid wastes? How solid wastes are disposed ultimately?	[4M]		
	d)	State the basis for assessing the rural sanitation options.	[4M]		
	e)	What is meant by low level Radioactive wastes?	[4M]		
	f)	Define the term sustainable development.	[3M]		
PART –B					
2	a)	Discuss in detail various air quality parameters and their limitations to be suitable for daily needs.	[8M]		
	b)	What are the sources of Noise Pollution? Explain in detail.	[8M]		
3	a)	Explain the process involved in Neutralization and Proportioning of waste.	[8M]		
	b)	State the strategies of pollution control along with the appropriate techniques adopted.	[8M]		
4	a)	Explain in detail the solid waste management hierarchy.	[8M]		
•	u) b)	Discuss in brief the steps involved in control measures of solid waste.	[8M]		
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5	a)	State the factors governing the valuable environmental sanitation for Hotels.	[8M]		
	b)	Explain the working principle involved in any one low cost sanitation method.	[8M]		
6	a)	Discuss in brief the disposal methods of hazardous waste.	[8M]		
	b)	Enumerate the characteristics of Electronic and Chemical wastes.	[8M]		
7	a)	Write a short note on cleaner production in achieving sustainability.	[8M]		
	b)	Enumerate various indicators of sustainability and explain how do they contribute to development.	[8M]		



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Note: 1. Question Paper consists of two parts (Part-A and Part-B)

Answering the question in **Part-A** is compulsory
Answer any **THREE** Questions from **Part-B**

PART -A

1	a)	How do you measure the Air quality? State the various air quality and their consequences.	[4M]
	b)	State the regulations to be followed for Industrial waste water.	[3M]
	c)	Show the structure of solid wastes.	[3M]
	d)	State the factors affecting the suitability of sanitation system.	[4M]
	e)	Give the detailed classification of Nuclear wastes.	[4M]
	f)	Explain the evolution of sustainable development.	[4M]
		PART –B	
2	a)	Discuss in detail various controlling methods of air pollution.	[8M]
	b)	State the various parameters for evaluating the noise pollution along with the standards.	[8M]
3	a)	Explain in detail the understanding required for flow equalization and proportioning in IWWM.	[8M]
	b)	Discuss in brief various effluent standards that need to be maintained for its proper	[8M]
		disposal.	
4	a)	Show the types of wastes along with the amount of time to generate the same.	[8M]
	b)	By means of neat sketch, explain in brief the three types of Combustion methods adopted for solid waste management.	[8M]
5	a)	What are the criteria for an acceptable sanitation options for Hostels? Explain in brief.	[8M]
	b)	Differentiate between the environmental sanitation process and parameters	[8M]
	-)	involved in Schools and Swimming pools.	[0]
6	a)	What is meant by Biomedical waste? Enumerate the steps in the management of	[8M]
		biomedical waste.	50 3 63
	b)	Discuss in brief the management process involved in Hazardous waste.	[8M]
7	a)	What are the different forms of energy contributing towards sustainable	[8M]
	b)	development? Discuss in brief. Write a detailed note on strategies adopted for sustainable development.	[8M]
	U)		[01v1]



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SET - 3

III B. Tech II Semester Regular/Supplementary Examinations, April - 2018 ENVIRONMENTAL POLLUTION AND CONTROL (Civil and ECE)

Time: 3 hours

Maximum Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in **Part-A** is compulsory

3. Answer any THREE Questions from Part-B

PART -A

1	a)	What is the significance of Smog in Air pollution?	[3M]
	b)	Show by means of diagram the treatment process unit operations involved in industrial wastewater management.	[4M]
	c)	List out the components involved in municipal solid waste.	[4M]
	d)	Define the term: Sanitation and the measure adopted for the same.	[4M]
	e)	Give the detailed classification of disposal of hazardous waste.	[4M]
	f)	What are the various elements to be considered in sustainable development?	[3M]
		PART –B	
2	a)	Explain in detail about the effects and sources of Carbon Monoxide and Sulfur dioxide pollutants.	[8M]
	b)	What are the various sources and effects of Noise pollution? Explain each in detail.	[8M]
3	a)	Discuss in detail about various important contaminants of Concern in Industrial Wastewater management.	[8M]
	b)	State and explain any two strength reduction methods of waste.	[8M]
4	a) b)	Give the detailed classification of wastes according to their origin and type. Explain the 4R's concept in solid waste management.	[8M] [8M]
	0)	Explain die Trestendepenisone waste management	[01,1]
5	a)	Discuss the treatment parameters involved in sanitation of public bathing places.	[8M]
	b)	State the factors governing the sanitation process at social gatherings.	[8M]
6	a)	Enumerate the characteristics of Electronic wastes.	[8M]
	b)	What are the various economical control methods adopted for nuclear hazardous wastes.	[8M]
7	a)	Discuss the importance of Climate change and Biodiversity in sustainable development.	[8M]
	b)	State the impacts of industrialization on sustainable development.	[8M]



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SET - 4

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Time: 3 hours

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Maximum Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**) 2. Answering the question in **Part-A** is compulsory

2. Answering the question in **Part-A** is compulsory

3. Answer any **THREE** Questions from **Part-B**

PART -A

1	a)	Explain the causes and effects of Outdoor pollution.	[3M]			
	b)	State the various sources of industrial wastewater management.	[4M]			
	c)	Enlist various types of wastes.	[3M]			
	d)	Show the classification of sanitation system.	[4M]			
	e)	What are the characteristics of Biomedical wastes?	[4M]			
	f)	Enlist the factors needed to achieve sustainable development.	[4M]			
	PART -B					
2	a)	Explain the working principles of any one particulate controlling device.	[8M]			
	b)	Explain the measuring devices adopted for noise pollution.	[8M]			
3	a) b)	Discuss in detail various steps involved in waste volume reduction. What is the significance of recirculation of industrial wastes? Explain the principle involved in it.	[8M] [8M]			
4	a)	By means of a neat sketch, detail the characteristics of solid waste.	[8M]			
	b)	Explain in brief the health and environmental hazards of solid waste.	[8M]			
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5	a)	Explain how rural sanitation is different from any other sanitation process adopted	[8M]			
	b)	for commercial buildings. State the parameters involved in the treatment of public bathing places and institutions.	[8M]			
6	a)	Discuss in brief any two control methods of disposal of Nuclear wastes.	[8M]			
-	b)	By means of a neat sketch, show the treatment process involved in hazardous wastes.	[8M]			
7	a)	Discuss the importance of Nutrient and hydrological cycles in sustainable development.	[8M]			
	b)	Enumerate the principles of sustainable development.	[8M]			
