

# III B. Tech II Semester Regular/Supplementary Examinations, April- 2017 ENVIRONMENTAL POLLUTION AND CONTROL (Civil Engineering)

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

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		PART -A				
1	a)	Enumerate the various methods of controlling gaseous emission.	[4M]			
	b)	State the significance of recirculation of wastes.	[3M]			
	c)	What are the various characteristics of solid wastes?	[4M]			
	d)	List out the rural sanitation methods for hospitals.	[3M]			
	e)	Classify the various hazardous wastes.	[4M]			
	f)	Discuss the various factors governing the sustainable development.	[4M]			
	<u>PART –B</u>					
2	a)	As per IS: 14000 codal provisions, discuss the ways of reducing the industrial noise and pollution.	[8M]			
	b)	Discuss various causes, effects and control measures of Air Pollution.	[8M]			
3	a)	Explain the salient features of Neutralization.	[5M]			
	b)	What are the various Treatment units provided for industrial wastewater treatment? Explain each with a neat sketch.	[8M]			
	c)	State the sources of Industrial wastewater.	[3M]			
4	a)	Give the detailed structure of Municipal solid waste and explain each in accordance to the present day scenario.	[8M]			
	b)	Discuss the sources, causes and effects of waste on health.	[8M]			
5	a)	Write a detailed note on the characteristics and effects of waste from social gatherings.	[8M]			
	b)	Highlight the detailed classification of Sanitation system.	[8M]			
6	a)	By means of neat sketch, explain in about Landfill process of Hazardous Waste.	[8M]			
	b)	Discuss the various principles and strategies followed for Hazardous waste management.	[8M]			
7	a)	Explain how the barriers and strategies help to achieve sustainable development with any suitable examples.	[8M]			
	b)	Discuss in detail about various components and elements of Sustainable development				



Code No: RT32016A (R13) (SET - 2)

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### PART -A

1	a)	What are the various causes of Air pollution?	[3M]			
	b)	State the significance of proportioning in Industrial wastewater management.	[4M]			
	c)	Enlist the basic characteristics of solid waste management.	[4M]			
	d)	Enumerate the objectives of Environmental Sanitation.	[4M]			
	e)	What are the various control methods followed by Hazardous waste.	[3M]			
	f)	State the indicators of Sustainable development.	[3M]			
	<u>PART –B</u>					
2	a)	Discuss in detail about the sources, effects and control measures of Noise Pollution.	[8M]			
	b)	Explain any two methods of controlling Gaseous Emissions.	[8M]			
3	a)	Explain the ways of strength reduction of industrial wastewater in detail.	[3M]			
	b)	What is Neutralization? Explain various methods of the same	[8M]			
	c)	Enlist the various strategies to be followed for pollution control.	[5M]			
4	a)	In the present day scenario, explain the importance of solid waste management.	[6M]			
	b)	Explain in detail the various processes carried out during the solid waste management.	[10M]			
5	a)	List out the various components of Environmental Sanitation and explain any two in detail.	[10M]			
	b)	Discuss the types and characteristics of Refuse Disposal.	[6M]			
6	a)	Enumerate the sources and effects of Nuclear Wastes.	[8M]			
	b)	Discuss the characteristics and treatment methods followed for Chemical wastes.	[8M]			
7	a)	Define Sustainable development and highlight the nature and consequence of Environmental sustainability.	[8M]			
	b)	Differentiate between Development and Sustainable development.	[8M]			



Code No: RT32016A (R13) (SET - 3)

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

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## PART -A

	<u>PART – A</u>				
1	a)	Highlight the effects of Noise Pollution.	[3M]		
	b)	List the standard range of some important effluents of Industrial wastewater.	[4M]		
	c)	State the necessity of solid waste management.	[4M]		
	d)	Enlist the various methods of Excreta Disposal and explain any one method.	[5M]		
	e)	Differentiate between the characteristics of Biomedical and Chemical wastes.	[3M]		
	f)	Define Economic Sustainability as a pillar to sustainable development.	[3M]		
		<u>PART -B</u>			
2	a)	Explain the principle involved in the analysis of any two Air Pollution devices.	[8M]		
	b)	Along with the respective equations, discuss how do you estimate the cycle time of noise pollution, speed and sound pressure levels.	[8M]		
3	a)	Explain the various characteristics of industrial wastewater.	[8M]		
	b)	State the significance and working principle of Equalization tanks with a neat sketch.	[8M]		
4	a)	Describe the various environmental benefits achieved because of solid waste management.	[8M]		
	b)	State and explain about the hierarchy of solid waste management.	[8M]		
5	a)	Enumerate the characteristics of wastewater coming from Schools and Institutions.	[8M]		
	b)	Discuss in detail about any two low cost sanitation methods.	[8M]		
6	a)	Explain in brief about management techniques and expertise required for the treatment of Hazardous wastes.	[8M]		
	b)	Highlight the impacts due to disposal of electronic wastes to the climatic conditions.	[8M]		
7	a)	By means of an example explain how cleaner production can be achieved by attaining sustainable development.	[8M]		
	b)	What is the change that is expected in sustainable development through Industrialization? Explain.	[8M]		



Code No: RT32016A **SET - 4 R13** 

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

		<u>PART – A</u>	
1	a)	Enlist the various measurement methods of Noise Pollution along with the standards.	[4M]
	b)	Highlight few strategies to be followed to control industrial wastewater pollution.	[4M]
	c)	State the fundamentals of land filling.	[4M]
	d)	Define Sanitation and Sanitation System.	[4M]
	e)	In what way is the Hazardous waste management important in the present day scenario?	[3M]
	f)	What do you understand about sociopolitical sustainability?	[3M]
		PART -B	
2	a)	Explain in detail about the various Particulate control devices.	[8M]
	b)	As per IS codal provisions, list the various Noise standards.	[4M]
	c)	What are the various causes and effects of Gaseous emissions? Explain.	[4M]
3	a)	Explain the uses, advantages and limitations of Equalization Tanks.	[5M]
	b)	Discuss in detail about Recirculation and Proportioning of Industrial wastes.	[8M]
	c)	How Volume and Strength reduction does contributes towards industrial wastewater management?	[3M]
4	a)	According to EPA regulations, define the solid wastes and give the detailed classification of wastes.	[8M]
	b)	Describe any two methods of solid waste disposal along with neat sketches	[8M]
5	a)	Give the detailed classification and suitability of Sanitation System.	[8M]
	b)	Explain about any two Environmental sanitation methods adopted for Swimming pools and public bathing places.	[8M]
6	a)	Show and differentiate in the form of a tabular column the important characteristics of Nuclear, Chemical and Electronic wastes.	[8M]
	b)	Give the details of the treatment process followed for Biomedical wastes.	[8M]
7	a)	Explain the various ways of home sustainability as a part of sustainable development.	[8M]
	b)	Discuss in detail about the approaches and strategies of Sustainable development.	[8M]