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Code No: **RT41085**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 INDUSTRIAL POLLUTION CONTROL ENGINEERING

Time: 3 hours

(Open Elective)

Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART_A (22 Marks)

1.	a)	Write different sources of Water Pollution.	[3]
	b)	Write briefly about self-purification of running streams.	[4]
	c)	Write briefly on Carbon absorption.	[3]
	d)	Write briefly about rotary drum filters.	[4]
	e)	Write briefly about gaseous sampling.	[4]
	f)	Explain how the change in raw materials would control air pollution.	[4]
		PART-B $(3x16 = 48 Marks)$	
2.	0)	What are the different types of emissions from chemical industries and give	
2.	a)	their environmental effects?	۲ 9 ٦
	b)		[8]
	b)	Write the guidelines and standards of effluent waste water.	[8]
3.	a)	Explain the analytical method of determination of BOD.	[8]
	b)	Derive the mathematical expression for BOD.	[8]
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4.	a)	Explain i) Reverse osmosis and ii) Ultra filtration Explain briefly about	
	,	i) Reverse osmosis and	
		ii) Ultra filtration	[8]
	b)	Explain briefly about	
	,	i) Flotation and	
		ii) Neutralization.	[8]
5.	a)	Explain anaerobic process of waste water treatment.	[8]
	b)	Explain in detail about Stabilization ponds.	[8]
6.	a)	Describe different analytical procedures to collect and characterize particulate	
0.)	matter from effluent streams.	[10]
	b)	List out the equipment for control of gaseous emissions.	[6]
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7.	a)	Write in detail about the principle of Electro-static precipitator.	[8]
	b)	With the help of an example explain how the changes in the existing processes	
		can decrease the pollution.	[8]

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