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Code No: **R41018** 

## IV B.Tech I Semester Supplementary Examinations, February/March - 2018 AIR POLLUTION AND CONTROL

## Time: 3 hours

(Open Elective)

Max. Marks: 75

## Answer any FIVE Questions All Questions carry equal marks \*\*\*\*\*

1	a) b)	Classify different types of air pollutants and indicate their sources. Discuss about primary and secondary air pollutants.	[8] [7]
2	a)	Enumerate the phenomenon of ozone depletion indicating the causes, effects and remedial measures.	[8]
	b)	What is acid rain? Discuss the causes, effects and remedial measures.	[7]
3	a)	Discuss the ways and means to reduce the Exhaust Emissions from an automobile.	[8]
	b)	Explain the basic mechanism of kinetics of air pollution.	[7]
4	a) b)	Explain the importance of meteorology in air pollution control. Discuss the method for drawing Wind Roses. Explain its use.	[7] [8]
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5	a) b)	Define Plume. How will you estimate the Plume rise?	[7]
	b)	Enumerate the phenomenon of Inversions. What are the conditions that favorable to Inversion with examples?	[8]
6	a)	With neat diagrams, explain the functioning of setting chambers & cyclones.	[8]
	b)	What is a fabric filter? Describe the function of Bag house.	[7]
7	a)	Explain various methods for control of NO <sub>2</sub> emissions.	[8]
	b)	Define the terms absorption and adsorption and differentiate with examples.	[7]
8	a)	Discuss about ambient air quality standards.	[7]
	b)	What are the environmental guidelines for industries to ensure optimum use of natural and artificial resources?	[8]

1 of 1