

## IV/IV B. Tech (Regular) DEGREE EXAMINATION

Seventh Semester Air Polls		stitutiona	I Elective	
		Air Pollution and Control		
		Maximum: 50 Marks		
		(10X1 = 10 Marks) (4X10=40 Marks)		
1. a)	Is photochemical smog a secondary pollutant justify?	СО	1	
b)	What are non-point sources of air pollution?	CO		
c)	List the global effects of air pollution.	CO		
d)	How is humidity measured in the atmosphere?	CO2		
e)	Outline the importance of wind rose?	CO2		
n	Define lapse rates.	` co2		
g)	Which device controls particulate pollutants?	CO3	3	
h)	List out objectives to be considered using control equipment for air pollution	n. CO3	3	
i)	What are the main features of Air Act, 1981?	CO4		
j)	What causes SOx emissions?	CO4		
	Unit -I			
2/	Classify and list the various sources of air pollution with minimum of examples of each.	of two CO1	10M	
220 -90	(OR)			
3. a)	Define acid rain. Illustrate the effects of acid rain on humans.	COI		
b)	Explain the causes and effects of greenhouse effect?	COI	5M	
	Unit –II	cor	1017	
4.	Explain wind rose with a neat sketch?	CO2	10M	
121	(OR)	cor	1004	
3/	Sketch the various plume phenomena and discuss a sketch in relation to dry adiabatic lapse rate.	CO2	7 10M	
	Unit -III			
% a)	Why usage of Electrostatic precipitators is limited? Give its advantages and	CO3	6M	
b)	disadvantages.  Explain with a neat sketch the construction of fabric filter and give its	CO	3 4M	
	applications?			
-	Explain the Gaussian dispersion model with assumptions and limitations?	CO3	3 10M	
7.	Explain the Gaussian dispersion mount with assumption	1000000		
	Unit -IV			
.8.	Describe the removal and control technologies for SOx.  (OR)	CO <sub>4</sub>	10M	
9. a)	What do you mean by air quality management? Explain its role and important	ince in CO4	6M	
	present situations.	CO4	4 4M	
b)	Explain how do you control the emission of NOx using desulphurization?			