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BICEE-012

01213

B.TECH. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination June, 2013

BICEE-012 : AIR QUALITY MONITORING AND CONTROL

Time: 3 hours		ours Maximum Marks	Maximum Marks: 70	
Note: Answer any five questions.				
1.	(a)	Define the following :	8	
		(i) Aerosol (ii) Smoke		
		(iii) Fly ash and (iv) Smog		
	(b)	What is photo chemical smog? Explain it's	6	
		formation and effects.		
2.	(a)	What are the natural air pollutants?	7	
		Explain the properties of Nox, PAN and		
		CO.		
	(b)	Explain the effects of air pollution on	7	
		human being.		
3.	(a)	Explain the economic and social aspects of	7	
		air pollution.		
	(b)	What do you understand by sources and	7	
		sinks of air pollution? Explain with an		
		example.		

2x3.5 = 7Write a note on the following: (a) 4. Urban Heat Island (i) (ii) Acid rain What is wind rose? How is it made? 7 (b) What are it's uses? 7 With neat sketches explain the behaviour 5. (a) of a plume for various environmental conditions. What are the various techniques of control (b) 7 of gaseous air pollutants in an Industry? Explain any one in detail. 8 What are the major air pollutants present 6. (a) in urban ambient air? Explain in detail the procedure of sampling and analysing of SOx. 6 (b) Explain the legal provisions for air pollution control. Write short notes on any two of the following: 2x7=147. Occupational diseases (a) (b) Industrial Ventilation

Primary and Secondary Pollutants

(c)