No. of Printed Pages: 2

Time: 3 hours

BICEE-012

Maximum Marks: 70

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00985 December, 2014

BICEE-012 : AIR QUALITY MONITORING AND CONTROL

Note: Answer any five questions. All questions carry equal marks. 1. Discuss the problems associated with air (a) pollution, with an example of a historical air pollution episode. 7 What are the various effects of air pollution (b) on animals and plants? Discuss in detail. 7 How do the meteorological conditions affect 2. (a) air pollution? Discuss in detail. 7 (b) Distinguish between primary secondary air pollutants using examples. 7 What are some of the commonly found air 3. (a) pollutants in Indian cities? What are the toxicity issues related to these pollutants? 7 $2 \times 3 \frac{1}{2} = 7$ (b) Write short notes on the following: (i) Wind Rose Acid Rain (ii) BICEE-012 1 P.T.O.

4.	(a)	Discuss the properties of NO _x . Explain in
		detail the procedure for sampling and analyzing NO_x .
	(b)	Distinguish between Smoke and Smog. 4
5.	(a)	What do you understand by sources and sinks of air pollution? Explain with the help of an example.
	(b)	What is the necessity of air pollution standards? Write a detailed note on National Ambient Air Quality Standards.
6.	(a)	Write notes on the following: $2 \times 3 \frac{1}{2} = 7$
		(i) Site Selection
		(ii) Zoning
	(b)	What are the various strategies for control of air pollution? Explain with relevant examples.
7.	(a)	Write a detailed account of status of air pollution control in various countries.
	(b)	What do you understand by "Industrial Hygiene" and why is it important?