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BICEE-012

B.Tech. CIVIL ENGINEERING (BTCLEVI) Term-End Examination December, 2015

BICEE-012 : AIR QUALITY MONITORING AND CONTROL

Time : 3 hours

Maximum Marks : 70

P.T.O.

Note: Answer any **five** questions. All questions carry equal marks.

1.	(a)	What is air pollution ? What are its sources ? Also explain Primary and Secondary pollutants.	7
	(b)	Explain the various effects of air pollution on plants.	7
2.	(a)	Write the effects of air pollutants on buildings and structures, giving suitable examples.	7
	(b)	Explain in brief, the meteorological parameters that influence air pollution.	7
3.	(a)	Explain the economic and social aspects of air pollution.	7
	(b)	What do you understand by sources and sinks of air pollution ? Explain with an example.	7

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4.	(a)	Explain the various control techniques of air pollution at source. 7
	(b)	List out the various control equipments used in control of air pollution. Explain about any one of them. 7
5.	(a)	Write short notes on the following : $2 \times 3 \frac{1}{2} = 7$
		(i) Urban Heat Island
		(ii) Acid Rain Formation
	(b)	What is a Wind rose diagram ? How is itmade ? What are its uses ?7
6.	(a)	Write the main objectives of the sampling at source. How is the location decided for collection of samples of polluted air? 7
	(b)	Explain the procedure for particulate matter sampling. 7
7.	Write	e short notes on any <i>four</i> of the
	follov	ving: $4 \times 3\frac{1}{2} = 14$
	(a)	Industrial Hygiene
	(b)	Industrial Ventilation
	(c)	Zoning Practices in India
	(d)	Occupational Diseases

(e) Industrial Lighting

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