

**B.TECH. CIVIL ENGINEERING
(BTCLEVI)**

**Term-End Examination
December, 2012**

**BICEE-012 : AIR QUALITY MONITORING AND
CONTROL**

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions.

1. (a) What is Air Pollution ? What are the sources of it ? Also explain Primary and Secondary Pollutants ? 7
- (b) Explain the various effects of air Pollution on Plants. 7
2. (a) What do you understand by Ozone holes ? What are the effects of it ? Also explain the control of Ozone depletion. 7
- (b) Explain the various Meteorological Parameters significant in air pollution. 7
3. (a) Give the ambient air quality standards of India. What are the objectives of air quality standards ? 7
- (b) Explain the following :
 - (i) Inversion and it's types 4
 - (ii) Minimum stack height 3

4. (a) Explain the various source control techniques of air pollution ? 7
- (b) List out the various control equipments used in control of air pollution. Explain any one of it. 7
5. (a) What is meant by occupational disease ? Explain by giving an example. Also mention it's control techniques. 7
- (b) What is SPM ? Explain the detailed procedure of ambient sampling of SPM. 7
6. (a) Explain the concept of Industrial Hygiene ? Discuss the various methods of Industrial lighting and Ventilation. 7
- (b) Explain the various environmental hazards involved in Factories. 7
7. Write short notes on *any two* of it following : $2 \times 7 = 14$
- (a) Status of air Pollution control in various Countries.
- (b) Air Pollution control by site selection and zoning.
- (c) Maximum Mixing Depth.
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