

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

**Term-End Examination**

00662

**December, 2017**

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

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. (a) What are the various economic and social aspects associated with air pollution ? Discuss using any historical episode of air pollution. 7
  
- (b) Write the effects of air pollutants on buildings and structures, giving suitable examples. 7

2. (a) Write the effects of air pollutants on physical features of the atmosphere. 7
- (b) Explain in brief, the meteorological parameters that influence air pollution. 7
3. (a) Write the main objectives of 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
4. Explain in detail, the reduction of air pollution by changing (a) raw materials, and (b) the process of production. 14
5. (a) Write a detailed account of status of air pollution control in India. 7
- (b) What are the various legal provisions for control of air pollution ? 7
6. (a) Write a detailed note on various air pollution control strategies employed in industries. 7
- (b) What is meant by occupational diseases ? Explain by giving an example. Also mention the control techniques for such diseases. 7

7. Write short notes on any **four** of the following :  $4 \times 3 \frac{1}{2} = 14$

- (a) Wind Rose Diagram
  - (b) Industrial Ventilation
  - (c) Acid Rain
  - (d) Zoning Practices in India
  - (e) Ozone Depletion
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