

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

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December, 2016

BICEE-012 : AIR QUALITY MONITORING AND CONTROL

Time : 3 hours

Maximum Marks : 70

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

1. (a) Discuss the problems associated with air pollution, with an example of historical air pollution episode. 7
- (b) Distinguish between primary and secondary air pollutants, using examples. 7
2. Explain with the help of diagrams, various types of plume behaviour. 14
3. (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

4. (a) What is the necessity of air pollution standards ? Write a detailed note on National Ambient Air Quality Standards. 7
- (b) List out the various control equipments used in the control of air pollution. Explain any one of them. 7
5. (a) What is meant by occupational disease ? Explain by giving an example. Also mention its control techniques. 7
- (b) What is SPM ? Explain the detailed procedure of ambient air sampling of SPM. 7
6. (a) Explain the legal provisions for air pollution control. 7
- (b) Explain the various environmental hazards involved in factories. 7
7. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Zoning Practices in India
- (b) Industrial Ventilation Systems
- (c) Industrial Lighting
- (d) Minimum Stack Height
- (e) Acid Rain
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