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Register Number:

7207

Name of the Candidate:

**DIPLOMA EXAMINATION, 2010**  
**(INDUSTRIAL POLLUTION AND CONTROL)**  
**(PAPER-II)**

**121. INDUSTRIAL POLLUTION AND CONTROL ENGINEERING**

Dec]

[Time : 3 Hours

Maximum : 100 Marks

*Answer any FIVE questions* (5×20=100)

1. What is air sampling? Explain the various techniques available for the collection of gaseous air pollutants. (20)
2. a) Explain the working principle of cyclone separator with a neat sketch. (10)  
b) What are the advantages and disadvantages of a cyclone separator? (10)
3. Explain the trickling filter process and indicate the essential feature of the process. (20)
4. Write short notes on sedimentation and floatation. (20)
5. Describe the working of a magnetic separator and gravity separator in the recovery of metals. (20)
6. a) Write about public health aspects in connection with solid waste management? (10)  
b) Describe in detail the composting technique. (10)
7. Explain the various methods of treating the effluent from sulfuric acid plant. (20)
8. What are the sources of pollution from pulp and paper industries and explain the methods of controlling pollution in the industry? (20)
9. What are the sources of pollution from a cement industry and explain the treatment methods. (10)
10. a) Enumerate the sources of air pollution from food and beverage industries. (5)  
b) Explain the treatment methods for the above. (15)

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