

**III B. Tech II Semester Regular Examinations, April- 2016**  
**ENVIRONMENTAL POLLUTION AND CONTROL**  
**(Civil Engineering)**

Time: 3 hours

Maximum Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answering the question in **Part-A** is compulsory  
 3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

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|---|---|------|
| 1 | a) Define decibel.  | [3M] |
|   | b) Explain Role of recirculation in industrial waste water treatment. | [4M] |
|   | c) How do you manage leachates from a land fill site?                 | [4M] |
|   | d) What is meant by environmental sanitation?                         | [3M] |
|   | e) How do you dispose the electronic waste- explain briefly?          | [4M] |
|   | f) Explain what is meant by sustainable development.                  | [4M] |

**PART -B**

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|---|--|------|
| 2 | a) List the various air pollutants   | [4M] |
|   | b) Write an account of causes and control methods of air pollutants.                         | [8M] |
|   | c) List out the Air quality standards.   | [4M] |
| 3 | a) What are the various industrial waste water treatment units?                              | [3M] |
|   | b) What are the pollution controlling strategies for industrial waste water management?      | [8M] |
|   | c) What is the role play by the Common Effluent treatment plant?                             | [5M] |
| 4 | a) What are the different methods of solid waste disposal? Explain the method of composting. | [8M] |
|   | b) Write a detailed note on solid waste management.  | [8M] |
| 5 | a) Explain the environmental sanitation methods suitable for Hotels and Hostels.             | [8M] |
|   | b) Write a detailed note on low cost waste disposal methods.                                 | [8M] |
| 6 | a) Write a detailed note on nuclear waste management.  | [8M] |
|   | b) Write a detailed note on biomedical waste management.                                     | [8M] |
| 7 | a) What are the elements of sustainable development, explain them?                           | [8M] |
|   | b) Write a short note on i) Sustainable strategies, ii) Cleaner production.                  | [8M] |

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**PART -A**

- 1 a) What are the sources of air pollutants? [3M]
- b) How do you measure the noise pollution? [4M]
- c) What is importance of source segregation? [4M]
- d) What are the sanitation methods adopted for social gatherings? [3M]
- e) What are Hazardous wastes? List them? [4M]
- f) What are the impediments for sustainable development? [4M]

**PART -B**

- 2 a) With neat sketch explain working principle of cyclones. [4M]
- b) Write an account of causes and control methods of air pollutants. [8M]
- c) List out the NAAQ standards. [4M]
- 3 a) Write a note on incineration. [3M]
- b) What are the pollution controlling strategies for industrial waste water management? [8M]
- c) Explain the importance of neutralization, equalization and proportioning. [5M]
- 4 a) Explain features and process of sanitary landfill. [8M]
- b) Write a detailed note on solid waste management. [8M]
- 5 a) Explain the sanitation methods suitable for Hotels and Hostels. [8M]
- b) What is meant by environmental sanitation? Explain the low cost waste disposal methods. [8M]
- 6 a) Write a note on treatment and management of chemical wastes. [8M]
- b) Write a detailed note on biomedical waste management. [8M]
- 7 a) What are the elements of sustainable development, explain them? [8M]
- b) Write a short note on [8M]
  - i) Barriers to sustainability ii) Cleaner production for achieving sustainability.

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Code No: RT32016A

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SET - 4

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**PART -A**

- 1 a) What are the types and sources of air pollutants? [3M]
- b) Define decibel. [4M]
- c) What are the strategies to consider in rural sanitation? [4M]
- d) What are the sanitation methods adopted for social gatherings? [3M]
- e) What is the role of cleaner production in achieving sustainability? [4M]
- f) How do you dispose the nuclear waste- explain briefly? [4M]

**PART -B**

- 2 a) Explain the methods used for reduction of industrial noise. [4M]
- b) Write an account of causes and control methods of air pollutants. [8M]
- c) List out the Air quality standards. [4M]
- 3 a) Note down the different types waste water treatment units used for treating the industrial wastes. [3M]
- b) What are the pollution controlling strategies for industrial waste water management? [8M]
- c) What is the role play by the Common Effluent treatment plant? [5M]
- 4 a) Write a short note on i) incineration ii) Composting. [8M]
- b) Write a detailed note on solid waste management. [8M]
- 5 a) Explain the sanitation methods adopted for swimming pools and bathing ghats. [8M]
- b) Write a detailed note on low cost waste disposal methods. [8M]
- 6 a) Write a detailed note on electronic waste management. [8M]
- b) Write a detailed note on biomedical waste management. [8M]
- 7 a) Write a note on i) Indicators of sustainable development ii) Barriers to sustainability. [8M]
- b) Write a short note on i) Sustainable strategies ii) Industrialization and sustainable development. [8M]

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