

Code No: RT32016A

R13**SET - 1**

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**

PART -A

- 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

- 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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R13**SET - 2**

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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**

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
i) Barriers to sustainability ii) Cleaner production for achieving sustainability. [8M]

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SET - 3

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(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**

PART -A

- 1 a) List the air pollution control devices. [3M]
- b) What is the benefit of Equalization in waste water treatment? [4M]
- c) What are the strategies to consider in rural sanitation? [4M]
- d) What is meant by Incineration? [3M]
- e) Brief the Hospital waste management. [4M]
- f) What is the role of cleaner production in achieving sustainability? [4M]

PART -B

- 2 a) What are the sources of SPM? [4M]
- b) Write an account on effects and control methods of air pollutants. [8M]
- c) Explain the methods used for reduction of residential noise. [4M]
- 3 a) List the different treatment units used in the waste water treatment. [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) Composting ii) Landfill. [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) Explain various low cost sanitation methods used for rural sanitation. [8M]
- 6 a) Write a detailed note on nuclear waste management. [8M]
- b) Write a detailed note on biomedical waste management. [8M]
- 7 a) Write a note on [8M]
i) Indicators of sustainable development ii) Barriers to sustainability.
b) Write a short note on [8M]
i) Sustainable strategies ii) Sustainable development.

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SET - 4

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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 compulsory3. Answer any **THREE** Questions from **Part-B**

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 [3M]
industrials wastes.
- b) What are the pollution controlling strategies for industrial waste water [8M]
management?
- 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 [8M]
ghats.
- 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 [8M]
i) Indicators of sustainable development ii) Barriers to sustainability.
- b) Write a short note on [8M]
i) Sustainable strategies ii) Industrialization and sustainable development.
