

III B. Tech II Semester Regular Examinations, June-2022

ENVIRONMENTAL POLLUTION & CONTROL

(Common to CE, CSE, IT)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

UNIT-I

1. a) Explain working of Fabric filters in detail with neat sketch. [8M]
b) How to reduce Industrial Noise? Explain in detail. [7M]

(OR)

2. a) Explain methods of Absorption in controlling gaseous pollutants. [8M]
b) Write about Noise standards in detail. [7M]

UNIT-II

3. a) What is meant by Volume reduction? Explain in detail. [8M]
b) Explain in detail about Recirculation of Industrial waste water. [7M]

(OR)

4. a) Explain role of Equalization in treatment of industrial waste water. [8M]
b) What are the advantages and disadvantages of Common effluent treatment plant? [7M]

UNIT-III

5. a) Write a short note on basics of on-site handling and collection of solid waste. [8M]
b) What is meant by Incineration? Explain treatment of solid waste by this method. [7M]

(OR)

6. a) What is meant by composting? Explain various factors effecting composting of solid waste. [8M]
b) What are the factors effecting selection of land filling sites for solid waste? Explain in detail. [7M]

UNIT-IV

7. a) What is meant by Environmental sanitation? Explain types of Environmental sanitation. [8M]
b) Explain Environmental Sanitation methods for Schools in detail. [7M]

(OR)

8. a) What are the objectives of Low cost waste disposal methods? [8M]
b) What is meant by Rural sanitation? Why it is important? Explain in detail. [7M]

UNIT-V

9. a) What is the importance of cleaner production in achieving sustainability? Explain in detail. [8M]
b) What are the uses of sustainable development? Explain in detail. [7M]
- (OR)**
10. a) Explain any two sustainability strategies in detail used in environmental pollution and control. [8M]
b) Explain in detail how Industrialization affects sustainability. [7M]



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UNIT-I

1. a) Explain working of Electro Static Precipitator in detail with a neat sketch. [8M]
b) What are the various control methods of Noise pollution? Explain in Detail. [7M]

(OR)

2. a) What is meant by Air pollution? Explain causes and sources of Air pollution. [8M]
b) Explain in detail about ISO14000. [7M]

UNIT-II

3. a) What is meant by Strength reduction? Explain in detail. [8M]
b) Explain about Common effluent treatment plant in detail. [7M]

(OR)

4. a) Explain role of Proportioning in treatment of industrial waste water. [8M]
b) Write industrial Effluent standard when released into surface water bodies. [7M]

UNIT-III

5. a) What is meant by Solid waste? Explain various characteristics of Solid waste. [8M]
b) What are the various methods of Composting of solid waste? Explain in detail. [7M]

(OR)

6. a) Write a short note on (i) Separation (ii) Processing [8M]
b) What is meant by land filling? Explain various methods of solid waste landfills. [7M]

UNIT-IV

7. a) Explain Environmental Sanitation methods for Public bathing places in detail. [8M]
b) Define Environmental sanitation. Write objectives of Environmental sanitation. [7M]

(OR)

8. a) Explain Environmental Sanitation methods for Social gatherings in detail. [8M]
b) What are the Advantages and disadvantages of Low cost waste disposal methods? [7M]

UNIT-V

9. a) Explain how to overcome barriers to sustainability in detail. [8M]
b) What is the importance of sustainable development at present days? Explain in detail. [7M]

(OR)

10. a) Write a short note on sustainable product design and cleaner production. [8M]
b) Define Indicator. List out various indicators of sustainable development. [7M]



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UNIT-I

1. a) What are the industrial applications of Fabric filters? Also mention advantages and disadvantages of fabric filters. [8M]
b) How to reduce Residential Noise? Explain in detail. [7M]

(OR)

2. a) Explain method of Combustion with neat sketch in controlling gaseous pollutants. [8M]
b) What are the main objectives of ISO14000? Explain in detail. [7M]

UNIT-II

3. a) Write a short note on (i) volume reduction (ii) strength reduction. [8M]
b) What is meant by Common effluent treatment? Draw the neat sketch of Common effluent treatment. [7M]

(OR)

4. a) What is meant by Proportioning? Explain in detail. [8M]
b) Write industrial Effluent standard when released into Public sewers. [7M]

UNIT-III

5. a) Explain various methods involved in on-site collection of solid waste. [8M]
b) What is meant by separation of solid waste? Explain its importance in solid waste management. [7M]

(OR)

6. a) Explain various solid waste disposal methods in detail. [8M]
b) What are the various physical characteristics of solid waste? Explain in detail its role in treatment. [7M]

UNIT-IV

7. a) Explain Environmental Sanitation methods for Institutions in detail. [8M]
b) Explain Environmental Sanitation methods for Hostels in detail. [7M]

(OR)

8. a) Explain in detail about Rural sanitation. [8M]
b) Explain in detail about Low cost waste disposal methods. [7M]

UNIT-V

9. a) What is meant by sustainable industrialization? Explain in detail [8M]
along with uses.
b) What are the objectives of sustainable development? Explain in [7M]
detail.

(OR)

10. a) Explain in detail about various indicators of sustainable [8M]
development.
b) List out any seven examples of environmental sustainability [7M]
strategies.



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SET - 4

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UNIT-I

1. a) Explain about gravity settling chamber in detail with neat sketch. [8M]
- b) Explain about measurement of Noise in detail. [7M]

(OR)

2. a) Explain working of Cyclones in detail with neat sketch. [8M]
- b) Explain methods of Adsorption in controlling gaseous pollutants. [7M]

UNIT-II

3. a) Explain about role of Neutralization in treatment of Industrial wastewater. [8M]
- b) Write industrial Effluent standard when released into Irrigation lands. [7M]

(OR)

4. a) Write a short note on strategies for pollution control at Industries. [8M]
- b) What are the main objectives of common effluent treatment plants? [7M]

UNIT-III

5. a) Explain various methods involved in on-site handling of solid waste. [8M]
- b) Define processing. Explain various process of solid waste in detail. [7M]

(OR)

6. a) What are the various chemical characteristics of solid waste? Explain in detail its role in treatment. [8M]
- b) Explain about land filling of solid waste in detail with neat sketch. [7M]

UNIT-IV

7. a) Explain Environmental Sanitation methods for Hotels in detail. [8M]
- b) Explain Environmental Sanitation methods for Hospitals in detail. [7M]



(OR)

8. a) Explain Environmental Sanitation methods for swimming pools in detail. [8M]
b) What is the role of Low cost waste disposal methods in Environmental sanitation? Explain in detail. [7M]

UNIT-V

9. a) What is meant by sustainable development? Explain in detail with example. [8M]
b) Explain various types of sustainable strategies in detail. [7M]

(OR)

10. a) Explain various elements of sustainable development in detail. [8M]
b) What are the various barriers to sustainability? Explain in detail [7M]
