

Code No: M0124

R07

Set No. 1

IV B.Tech. I Semester Regular Examinations, November, 2012
ENVIRONMENTAL ENGINEERING - II
(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is Climate Change? What are Carbon credits? Discuss briefly the sources and methods of control of GHE and Ozone Holes.
2. a) Discuss the suitability of various Particulate Control Devices with reference to Particle size, Head loss, Efficiency of removal of particles of various sizes, and advantages and disadvantages.
b) Describe the general methods of controlling gaseous emissions of SO₂, NO_x and co.
3. Describe the functional and operational aspects, advantages and disadvantages and suitability of various Advanced Water Treatment Processes of Ion Exchange, Reverse Osmosis and Freezing.
4. Describe the common Methods of treatment of industrial wastewaters like volume reduction, strength reduction, neutralization, equalization, color and odor removal, removal of Iron and Manganese, removal of Nitrogen and Phosphorous compounds, in detail. Discuss the suitability of Biological treatment methods in treating industrial wastewaters.
5. Describe the Solid Waste Management Methodologies to be adopted for a town of population 2 lakh, stepwise. Describe the operations of a Municipal incinerator, Composting and Land-filling in detail.

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6. Describe in detail the methods of treatment and management of Hazardous wastes with special reference to treatment and management of Biomedical wastes, Chemical wastes and Nuclear wastes.
7. Describe the various methods of reducing noise in residential areas and industries, with reference to Noise Standards.
8. Write short notes on:
 - a) Environment Protection Act
 - b) Effects of SO₂, NO_x, CO and SPM on man, material and vegetation
 - c) Collection, handling and processing of Solid wastes before treatment
 - d) Defluoridation
 - e) Heat Islands.
 - f) Vermi Copmposting

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Set No. 2

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ENVIRONMENTAL ENGINEERING - II
(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is Climate Change? Discuss briefly the sources, effects and methods of control of GHE, Ozone Holes, Acid Rains and Heat Islands.
2. a) Discuss the suitability of various Particulate Control Devices with reference to Particle size, Head loss, Efficiency of removal of RPM and Advantages and disadvantages.
b) Describe the design and functional details of ESPs and Packed Towers.
3. Describe the functional and operational aspects, advantages and disadvantages and suitability of various Advanced Water Treatment Processes like Ion Exchange, Reverse Osmosis, Freezing and Adsorption for supply of water to a village or an industry.
4. Describe the Common Methods of treatment of industrial wastewaters like Volume reduction, Strength reduction, Neutralization, Equalization, Color and Odor removal, Removal of Iron and Manganese, Removal of Nitrogen and Phosphorous compounds, in detail. Discuss 'Proportioning' and the suitability of biological treatment methods in treating industrial wastewaters.
5. Describe the Solid Waste Management Methodology to be adopted for a city like Kakinada, stepwise. Discuss the possibility of various devices and describe the operation of a Sanitary landfilling, Composting and Municipal incinerator in detail.
6. Describe in detail the methods of treatment of Hazardous wastes with special reference to Management of Biomedical wastes, Chemical wastes and Nuclear wastes.

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7. Describe the various methods of reducing noise in residential areas and industries, with reference to Noise standards.
8. Write short notes on any Four of the following:
 - a) Reverse Flow Cyclones
 - b) Environmental Protection Act
 - c) Collection, handling and processing of Solid wastes before treatment
 - d) Defluoridation
 - e) Nuclear pollution and control
 - f) Vermin Composting

FirstRanker

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Set No. 3

IV B.Tech. I Semester Regular Examinations, November, 2012
ENVIRONMENTAL ENGINEERING - II
(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is Climate Change? What are Carbon credits? Discuss briefly the sources and methods of control of GHE, Ozone Holes and Acid Rains.
2. Describe the working of RFC, ESP, Bag House and Packed Towers. With reference to Particle size, Head loss, Efficiency of removal of RPM, discuss their suitability in industries and their advantages and disadvantages, in general.
3. Describe the functional and operational aspects, advantages and disadvantages and suitability of various Advanced Water Treatment Processes like Freezing, Ion Exchange and reverse Osmosis for supply of water to an industrial estate.
4. Describe the Common Methods of treatment of industrial wastewaters like Volume reduction, strength reduction, neutralization, Equalization, Proportioning, Color removal, Removal of odor, Removal of Nitrogen and Phosphorous compounds, in detail.
5. Describe the Solid Waste Management Methodology to be adopted for a city of population 5 lakh, stepwise. Describe the operations of a Municipal incinerator, Composting and Land-filling in detail.
6. Describe in detail the methods of treatment of Hazardous wastes with special reference to Management of Biomedical wastes, Chemical wastes and Nuclear wastes.

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7. Describe the various methods of reducing noise in residential areas and industries, with reference to Noise Standards.

8. Write short notes on any four of the following:
 - a) Effluent Standards vs. Stream standards
 - b) Effects of SO₂ and SPM on man, material and vegetation
 - c) Collection, handling and processing of Solid wastes before treatment
 - d) Defluoridation
 - e) Vermi Composting

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Set No. 4

IV B.Tech. I Semester Regular Examinations, November, 2012
ENVIRONMENTAL ENGINEERING - II
(Civil Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is Climate Change? What are Carbon credits? Discuss briefly the sources, effects and methods of control of GHE, Ozone Holes and Acid Rains.
2. Describe the working of RFC, ESP, Bag House and Packed Towers. With reference to Particle size, Head loss, Efficiency of removal of RPM, discuss their suitability in industries and their advantages and disadvantages, in general.
3. Describe the functional and operational aspects, advantages and disadvantages and suitability of various Advanced Water Treatment Processes like Ion Exchange, Reverse Osmosis and Adsorption for supply of water to an industrial estate.
4. Describe the Common Methods of treatment of industrial wastewaters like Volume reduction, strength reduction, neutralization, Equalization, Color removal, Removal of Nitrogen and Phosphorous compounds, in detail. Discuss the suitability of biological treatment methods in treating industrial wastewaters.
5. Describe the Solid Waste Management Methodology to be adopted for a city like Visakhapatnam, stepwise. Describe the operations of a Municipal incinerator, Composting and Land-filling in detail.
6. Describe in detail the methods of treatment of Hazardous wastes with special reference to Management of Biomedical wastes, Chemical wastes and Nuclear wastes.

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Set No. 4

7. Describe the various methods of reducing noise in residential areas and industries, with reference to Noise Standards.

8. Write short notes on any four:
 - a) Effluent Standards vs. other standards
 - b) Sources of SO₂, NO_x, CO and SPM.
 - c) Collection, handling and processing of Solid wastes before treatment
 - d) Defluoridation
 - e) Heat Islands.
 - f) Vermi Composting

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