

Code No: R05410106

R05

Set No. 2

IV B.Tech I Semester Examinations, November 2010
INDUSTRIAL WASTE AND WASTE WATER MANAGEMENT
Civil Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain what are the advantages and disadvantages of disposal of industrial waste into streams? [16]
2. (a) Discuss critically the treatment and disposal of oil refinery wastes.
(b) Explain the basic refinery operations with the help of a flow diagram. [8+8]
3. Define neutralization of industrial waste? Where is it located in treatment process? Explain its importance. [16]
4. (a) What are the various sources of waste water from a molasses based distillery. Mention the typical characteristics of waste water from each source.
(b) Explain the various treatment process schemes of distillery effluent by means of neat process flow diagrams. [8+8]
5. (a) Explain how to select a site for construction of common effluent treatment.
(b) What are the hazards associated with discharge of treated waste water from common effluent treatment plant into small streams? [8+8]
6. (a) Explain the following with reference to paper and pulp manufacturing process.
 - i. Raw Materials
 - ii. Characteristics of wastes and
 - iii. Sulphate process.
(b) Describe massive lime Treatment for colour Removal in pulp and paper mill. [8+8]
7. Give suggestions for improving the reuses of Municipal waste water. [16]
8. Explain with the help of a flow diagram of general treatment of cotton and woolen textile mill waste. [16]

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R05**Set No. 4**

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INDUSTRIAL WASTE AND WASTE WATER MANAGEMENT
Civil Engineering

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What are the various sources of waste water from a molasses based distillery. Mention the typical characteristics of waste water from each source.
(b) Explain the various treatment process schemes of distillery effluent by means of neat process flow diagrams. [8+8]
2. Give suggestions for improving the reuses of Municipal waste water. [16]
3. Define neutralization of industrial waste? Where is it located in treatment process? Explain its importance. [16]
4. (a) Explain the following with reference to paper and pulp manufacturing process.
 - i. Raw Materials
 - ii. Characteristics of wastes and
 - iii. Sulphate process.(b) Describe massive lime Treatment for colour Removal in pulp and paper mill. [8+8]
5. (a) Explain how to select a site for construction of common effluent treatment.
(b) What are the hazards associated with discharge of treated of waste water from common effluent treatment plant into small streams? [8+8]
6. Explain what are the advantages and disadvantages of disposal of industrial waste into streams? [16]
7. Explain with the help of a flow diagram of general treatment of cotton and woolen textile mill waste. [16]
8. (a) Discuss critically the treatment and disposal of oil refinery wastes.
(b) Explain the basic refinery operations with the help of a flow diagram. [8+8]

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R05**Set No. 1**

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INDUSTRIAL WASTE AND WASTE WATER MANAGEMENT
Civil Engineering

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
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1. Explain with the help of a flow diagram of general treatment of cotton and woolen textile mill waste. [16]
2. Give suggestions for improving the reuses of Municipal waste water. [16]
3. Explain what are the advantages and disadvantages of disposal of industrial waste into streams? [16]
4. (a) What are the various sources of waste water from a molasses based distillery. Mention the typical characteristics of waste water from each source.
(b) Explain the various treatment process schemes of distillery effluent by means of neat process flow diagrams. [8+8]
5. (a) Explain how to select a site for construction of common effluent treatment.
(b) What are the hazards associated with discharge of treated waste water from common effluent treatment plant into small streams? [8+8]
6. Define neutralization of industrial waste? Where is it located in treatment process? Explain its importance. [16]
7. (a) Discuss critically the treatment and disposal of oil refinery wastes.
(b) Explain the basic refinery operations with the help of a flow diagram. [8+8]
8. (a) Explain the following with reference to paper and pulp manufacturing process.
 - i. Raw Materials
 - ii. Characteristics of wastes and
 - iii. Sulphate process.
(b) Describe massive lime Treatment for colour Removal in pulp and paper mill. [8+8]

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R05**Set No. 3**

IV B.Tech I Semester Examinations, November 2010
INDUSTRIAL WASTE AND WASTE WATER MANAGEMENT
Civil Engineering

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. Explain with the help of a flow diagram of general treatment of cotton and woolen textile mill waste. [16]
2. Explain what are the advantages and disadvantages of disposal of industrial waste into streams? [16]
3. Give suggestions for improving the reuses of Municipal waste water. [16]
4. (a) Explain the following with reference to paper and pulp manufacturing process.
 - i. Raw Materials
 - ii. Characteristics of wastes and
 - iii. Sulphate process.
 (b) Describe massive lime Treatment for colour Removal in pulp and paper mill. [8+8]
5. (a) Discuss critically the treatment and disposal of oil refinery wastes.
 (b) Explain the basic refinery operations with the help of a flow diagram. [8+8]
6. Define neutralization of industrial waste? Where is it located in treatment process? Explain its importance. [16]
7. (a) Explain how to select a site for construction of common effluent treatment.
 (b) What are the hazards associated with discharge of treated of waste water from common effluent treatment plant into small streams? [8+8]
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