

Code No: 09A50106

R09

Set No. 2

III B.Tech I Semester Examinations, December 2011
WASTE MANAGEMENT
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. Explain water reuse in petroleum refining industry. Also explain how reuse of water can be implemented if a segregated waste water collection system exists. [15]
2. Explain the role of dissolved oxygen in treating industrial waste water by with the help of oxygen sag curve. [15]
3. Discuss the suitability of common effluent treatment plants (CETP). What are the questions need to be answered to assess the feasibility of setting up of a CETP. [15]
4. Discuss critically “Effluent standards” and “Stream standards” as a part of stream protection measure. [15]
5. Explain chemical conditioning of boiler water and feed water with the help of a neat sketch. [15]
6. Discuss in detail, the effects of anti biotic wastes on receiving water. Also describe the treatment of anti biotic wastes. [15]
7. Draw a typical flow diagram giving salient features for operations and sources of waste water in a urea manufacturing plant. [15]
8. Give the composition of two main streams of waste in a viscose rayon plant. Also explain the effect of these wastes on the receiving water. [15]

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Set No. 4

III B.Tech I Semester Examinations, December 2011
WASTE MANAGEMENT
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the different stages of process of brewing. Also explain the origin of brewery waste. [15]
2. Give the characteristics of sugar mill wastes. Also explain the effects of these waste on receiving water. [15]
3. With the help of a flow diagram, explain how the treatment of a typical common effluent is carried out in different stages. [15]
4. Explain what is Equalization of wastes. Also explain the beneficial effects of equalization with the help of a graph. [15]
5. Explain the paper manufacturing process, locating the sources of generation of wastes and indicate the lines of treatment. [15]
6. Discuss critically the measures to be taken for the pollution control of effluents in fertilizer industry. [15]
7. Explain in detail what are the problems associated with the discharge of industrial waste waters. What are the remedial measures to be taken against these problems. [15]
8. Explain the various problems associated with the use of municipal wastewater in different industries. What are the measures to be taken against it. [15]

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Set No. 1

III B.Tech I Semester Examinations, December 2011
WASTE MANAGEMENT
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the disposal of industrial wastes and it's related problems. [15]
2. Discuss the general principles of water treatment for boilers. [15]
3. What is meant by Equalization. Explain how the equalization of wastes is carried out. Also explain the basins used in equalization with neat sketches. [15]
4. What is the concept of common effluent treatment plants (CETP). What is the need for CETP. What are the advantages of CETP. [15]
5. Discuss the by-products recovered in a distillery in detail. [15]
6. Explain steel melting shop and Rolling mills of a steel plants along with a wastes. [15]
7. What are the advantages of reusing or recycling wastewater. Discuss the water Reuse strategies in a steel plant. [15]
8. Explain the processes pulp making and making final product of paper in the manufacture of paper. [15]

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Set No. 3

III B.Tech I Semester Examinations, December 2011
WASTE MANAGEMENT
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. What is oxygen sag curve. What is the significance of it. Draw and explain the salient features of it. [15]
2. Explain the treatment of woolen textile mill waste with the help of a flow diagram. [15]
3. What is meant by Equalization. Explain how the equalization of wastes is carried out. Also explain the basins used in equalization with neat sketches. [15]
4. With the help of a schematic diagram, explain Blast Furnace waste treatment process in detail. [15]
5. Describe the different methods of effluent of a disposal, along with their relative merits and demerits. [15]
6. Describe the recommended characteristics of feed water and boiler water. Also explain the choice of complete boiler water treatment process. [15]
7. Describe the composition of waste water of a typical dairy. Also discuss the effects of these wastes on the receiving streams. [15]
8. Discuss in detail reuse of treated industrial and municipal waste water. [15]
