

R16

Code No: 138FF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, July - 2021

WASTE MANAGEMENT

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Write a short notes on Quality requirements of boilers and cooling waters.
- b) Write a short notes on Quality requirements for process treatment for Food processing and Brewery Industries. [7+8]
- 2.a) Explain in detail about volume reduction of the industrial wastewater.
- b) Write a short note about Equalization process. [7+8]
- 3.a) Explain manufacturing process and design origin of liquid waste from paper and pulp industries.
- b) Write about special characteristics of Dairy industries liquid waste and discuss how to treat the wastewater for Dairy industries. [7+8]
4. Write about special characteristics of wastewater released from tanneries and explain the effects and how to treat the water water from Tannery industry. [15]
5. Explain about manufacturing process and design origin of liquid waste from sugar industries and write about how to treat the waste water from sugar industries. [15]
6. Write about special characteristics and effects of liquid waste from pharmaceutical plants and how to treat the waste water from pharmaceutical plants. [15]
7. Explain in detail about effluent disposal methods of waste from common effluent treatment plants. [15]
8. Explain about manufacturing process and design origin of liquid waste from steel plant and write about how to treat the waste water from steel plant. [15]

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