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Code No: 138FF

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, December - 2020

AG AG AG WASTE MANAGEMENT AG AG AG A
(Civil Engineering)

Time: 2 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) What are the requirements of boiler feed water ?
- b) Define Zero liquid discharge and what the salient features of it is. [7+8]
2. Explain in detail the boiler water treatment methods. [15]
3. Describe in detail the principle of Primary and secondary clarifier with its advantages. [15]
4. Describe in detail the principle of Biological treatment system with suitable unit process with flow chart? [15]
5. What are the different stages in industries, the treated municipal waste water can be used. Explain with good examples. [15]
6. Explain in detail the principle and treatment process of Reverse Osmosis. [15]
7. Explain in detail the effluent treatment plant of pharmaceutical manufacturing unit with schematic diagram. [15]
8. Explain in detail the unit process of CETP for textile industries with schematic diagram. [15]

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