

PROCESS EQUIPMENT DESIGN & ENVIRONMENTAL ENGINEERING

Assignment – 1

Answer the following questions

1. Mention any two major design criteria for construction of a clarifier.
2. Mention any six overall design parameters involved in designing a chemical recovery plant in a kraft mill.
3. Mention at least six design criteria for constructing the recovery furnace section of a chemical recovery plant:
4. Mention atleast six overall design criteria for constructing a white liquor clarifier in a kraft mill.
5. Mention any two design parameters in the construction of a smelt dissolving tank.
6. Mention any two design criteria in the construction of a double pipe heat exchanger
7. What is the amount of moisture present in 40 tons paper product containing 4% moisture
8. Calculate the pulp mill yield with 100 tons of debarked wood.

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Assignment – 2

Answer the following questions

1. Mention any two important design parameters involved in the design of a chipper
2. What factors influence the design of a stationary digester in a kraft pulp mill?
Mention any six of them.
3. Mention atleast six design parameters in designing a pressure screen for pulp in a kraft mill.
4. Mention atleast six design parameters involved in the construction of a De Inking plant.
5. Mention atleast six overall design parameters involved in construction a brown stock washing plant in a kraft mill.
6. Mention atleast six design parameters involved in constructing a bleach tower of kraft mill.
7. Mention atleast six design parameters in selecting press part of a standard paper machine.
8. Mention any two design parameters of modem headbox in a machine.
9. What factors influence the design of wet end of a paper machine Mention any two.
10. Mention atleast six design parameters involved in selecting a standard drying section of a paper machine.