

ASSIGNMENT (Pulp Refining)

- a.
 - i. What is Pulp Refining
 - ii. Briefly explain the theory of Pulp Refining using qualitative analysis.
- b.
 - i. Show that the Specific Energy “E” delivered to a given quantity of fiber flocs collect on refiner bar edges is given by Equation 1, using the qualitative analysis of Pulp Refining.

$$E = \frac{P - P_{No-Load}}{QC} \quad (1)$$

Where Q is the volumetric flow rate through the refiner and C is the consistency.

- ii. Define all the terms and in your derivation.