

ASSIGNMENT-2

① (a.) what are the major and minor losses in pipe flow? Under what circumstances will they be negligible?

b.) Water flows through a pipeline whose diameter varies from 25 cm to 15 cm in a length of 10 m. If the Darcy-Weisbach friction factor is assumed constant as 0.018 for the whole pipe, determine the head loss in friction when the pipe is flowing full with a discharge of ~~0.06~~ $0.06 \text{ m}^3/\text{sec}$.

c.) Define metacentre and metacentric height. Derive an expression for metacentric height for experimental method.