



COLLEGE OF ENGINEERING & TECHNOLOGY

Department : MECHANICAL ENGINEERING

Lecturers : Prof. Dr. Kamal Abd- Elaziz – Dr. Rola Samir – Dr. Ahmed Khalifa Mehanna

Course : Hydraulics

Course No. : ME 362

Date : 09/05/2016

Name:

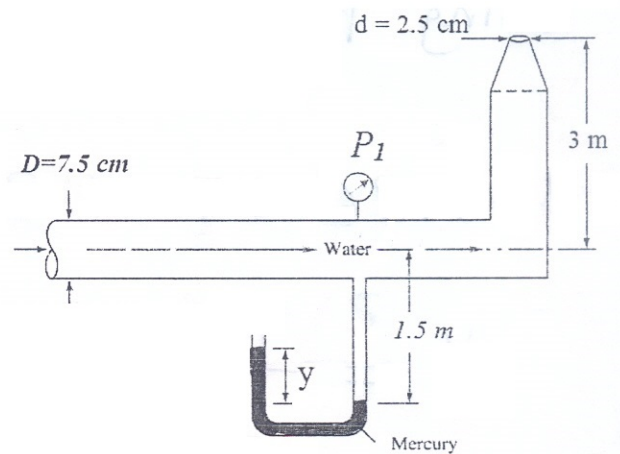
Time: 40 minutes

Reg. No.:

12th Week Exam

Answer the following questions:

1. For ideal flow of water as shown in the below Figure, the mass flow rate is 8.83 kg/s. Find the manometer reading (y) and the absolute pressure (P_1). The atmospheric pressure is 101.3 kPa.



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2. Find the force (P) required to hold the gate in the position shown in the below Figure.
The gate is 4 m wide. Neglect the weight of the gate.

