

FLUID MECHANICS – TYPICAL EXAM QUESTIONS (30 minutes each)

1. A 5 m wide tank with an L-shaped cross section, as shown in Fig. Q1, has a gate which is hinged at the top at its right hand end. The tank is filled with water to a level of 8 m. Determine:

- (a) The torque required at the hinge to just keep the gate closed. [20 marks]
 (b) The force on the base of the tank, and comment on why this is not the same as the weight of the water. [5 marks]

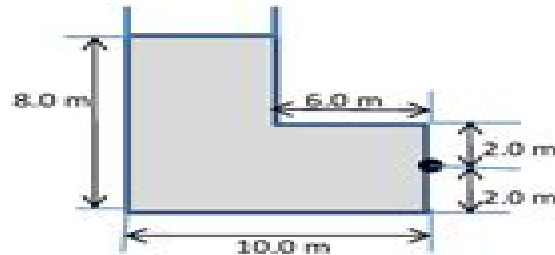


Fig. Q1

2. Water flows along a circular pipe and is turned vertically through 180° by a reducing bend as shown in Fig. Q2. The rate of flow in the pipe is 20 litres/s, the pressure measured at the entrance to the bend is 120 kN/m^2 , and the volume of fluid in the bend is 0.1 m^3 . What is the magnitude and direction of the force exerted by the fluid on the bend? Ignore any friction losses. [25 marks]

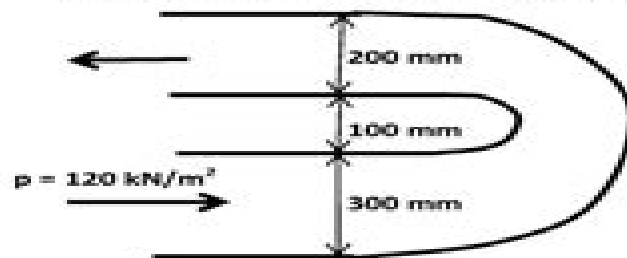


Fig. Q2

3. Water is flowing in a 300 mm pipeline fitted with a 45° bend in the vertical plane. The diameter at the outlet of the bend is 150 mm. The pipe axis at the inlet is horizontal and the outlet is 1.5 m above the inlet. If the flow through the bend is $0.4 \text{ m}^3/\text{s}$ and a head-loss of 0.5 m occurs in the bend, calculate the magnitude and direction of the resultant force the bend support must withstand. The volume of the bend is 0.075 m^3 and the pressure at the inlet is 300 kN/m^2 . [25 marks]

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