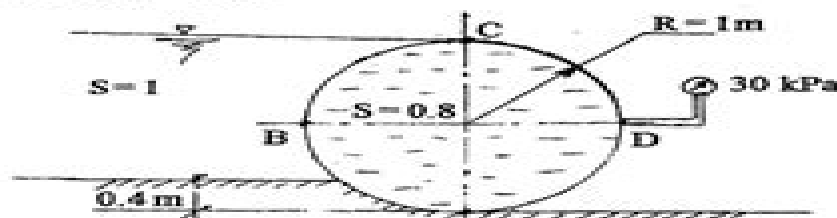


Exam. Level Programme Year / Part	Regular		
	BE	Full Marks	80
	BCE, BAG	Pass Marks	32
	II / I	Time	3 hrs.

Subject: - Fluid Mechanics (CE 505)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. a) Explain the causes of viscosity in gases and liquids. A capillary tube of uniform bore (radius 0.2 mm and length = 6 cm) is dipped vertically in water. Find the height of water rises in tube. Take surface tension of water as 0.073 N/m. Will the length of tube affects the answer? Justify. [1+1+1+1]
- b) Derive the hydrostatic law of pressure distribution. Explain the working principle of inverted differential manometers. [4+2]
- c) Derive an expression for the time of emptying of a conical tank without inflow. [6]
2. a) Determine total pressure and its line of action on curved surface ABCDA as shown in figure below. Take length = 2 m. [8]



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