

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]



# Fluid Mechanics Exam Paper

**JA Banks**



## **Fluid Mechanics Exam Paper:**

## Decoding **Fluid Mechanics Exam Paper**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Fluid Mechanics Exam Paper**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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