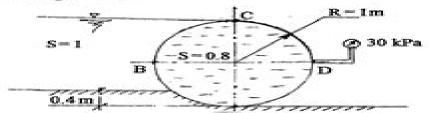
# TRIBHUVAN UNIVERSITY INSTITUTE OF ENGINEERING Yamination Control Division

Examination Control Division 2079 Bhadra

Exam.	Regular		
Level	BE	Full Marks	8:0
Programme	BCE, BAG	Pass Marks	32
Year / Part	11 / 1	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.
- 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.
  - c) Derive an expression for the time of emptying of a conical tank without inflow. [6]
- a) Determine total pressure and its line of action on curved surface ABCDA as shown in figure below. Take length = 2 m.



## Fluid Mechanics N5 Previous Question Papers

**Matteo Collodel, Eric Oberheim** 

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offers an inside look into the notoriously tumultuous professional relationship of two great minds Karl Popper and Paul Feverabend It collects their complete surviving correspondence 1948 1967 and contains previously unpublished papers by both An introduction situates the correspondence in its historical context by recounting how they first came to meet and an extensive editorial apparatus provides a wealth of background information along with systematic mini biographies of persons named Taken together the collection presents Popper and Feyerabend's controversial ideas against the background of the postwar academic environment It exposes key aspects of an evolving student mentor relationship that eventually ended amidst increasing accusations of plagiarism Throughout readers will find in depth discussions on a wide range of intriguing topics including an ongoing debate over the foundations of quantum theory and Popper's repeated attempts to design an experiment that would test different interpretations of quantum mechanics The captivating exchange between Feyerabend and Popper offers a valuable resource that will appeal to scientists laymen and a wide range of scholars especially philosophers historians of science and philosophy and more generally intellectual historians National Union Catalog **New Technical Books** New York Public Library, 1959 EPA Publications Bibliography, 1984-1990: Report ,1978 summaries United States. Environmental Protection Agency, 1990 Reference Sources Linda Mark, 1978 **EPA** 

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