

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 N5 Previous Question Papers

Matteo Collodel, Eric Oberheim



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Encyclopedia of Fluid Mechanics: Rheology and non-Newtonian flows, 1986 *U.S. Government Research & Development Reports*, 1969-10 *Publications of the National Institute of Standards and Technology 1988 Catalog* Rebecca J. Pardee, National Institute of Standards and Technology (U.S.), 1989 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994 **Publications** United States. National Bureau of Standards, 1989 Government Reports Announcements & Index, 1996 **Scientific and Technical Aerospace Reports**, 1987 Government Reports Announcements, 1974 *U.S. Government Research & Development Reports*, 1969-10 Prairie Farmer, 1868 *Serials Holdings* Linda Hall Library, 1989 **Current Index to Journals in Education**, 1990 **KWIC Index of Rock Mechanics Literature Published Before 1969: Index of listed references. Author index** A. Gralowska, Gillian Smith, Mrs. P. Stanfield, 1969 *Government Reports Announcements*, 1973

Feyerabend's Formative Years. Volume 1. Feyerabend and Popper Matteo Collodel, Eric Oberheim, 2020-03-30 This book offers an inside look into the notoriously tumultuous professional relationship of two great minds Karl Popper and Paul Feyerabend 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, 1978 **New Technical Books** New York Public Library, 1959 **EPA Publications Bibliography, 1984-1990: Report summaries** United States. Environmental Protection Agency, 1990 *Reference Sources* Linda Mark, 1978 **EPA Publications Bibliography**, 1984

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