

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) Differentiate between pipe flow and open channel flow. Derive Hagen-Poiseuille's equation for the drop in pressure head for laminar flow through circular pipes 8
- b) Determine the rate of flow of water through a pipe of 20 cm diameter and length 50 m when one end of the pipe is connected to a tank and other end of the pipe is open to the atmosphere. The pipe is horizontal and the height of water in the tank is 4 m above the center of the pipe. Consider all losses and take frictional coefficient $f = 0.009$. 7
2. a) Solve the following pipe network by using Hardy Cross method. Assuming $n = 2$ in $h_f = r Q^n$. 8



- b) Two reservoirs are connected by a pipe line consisting of two pipes, one is 15 cm diameter and length of 25 m and the other of 30 cm diameter and length of 15 m. If the difference of water level in the two reservoir is 12 m, calculate the discharge and draw the energy gradient line. Take friction factor $f=0.04$. 7
3. a) What is most economical channel section? Derive the condition for the best side slope of the most economical rectangular channel. 6
- b) A main channel has to irrigate certain area. Following data are available for design: 9

Hydraulics Question Paper

Rachel S Tattersall



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Hydraulics and Pneumatics Controls Shanmuga Sundaram, 2006 For B E B Tech students of Anna and Other Technical Universities of India OIL HYDRAULICS AND PNEUMATICS, 2023-11-22 This edition of the book is based on the syllabus of OIL HYDRAULICS AND PNEUMATICS for the final year engineering students of all disciplines of Gujarat Technological University Gujarat Each chapter contains a number of solved and unsolved problems to imbue self confidence in the students Diagrams are prepared in accordance with ISI For dimensioning the latest method is followed and SI Units are used **GATE Environment Science & Engineering [ES] Solved Previous Year Question Paper II Latest Book II 2021 to 2025 II PYQ II With Detail Solution**, 2025-06-24 Prepare thoroughly for the GATE Environmental Science Engineering ES examination with this comprehensive collection of fully solved previous year question papers 2021 2025 Designed specifically for GATE aspirants this book provides detailed step by step solutions to each question helping students grasp key concepts identify trends and master the GATE ES syllabus with confidence Key features of the book Complete Coverage 2021 2025 Detailed Solutions Topic wise Insights Updated as per Latest Pattern Ideal for Practice and Revision

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Hydraulics of Open Channel Flow Hubert Chanson, 2004-05-25 Since the publication of its first edition in 1999 The Hydraulics of Open Channel Flow has been praised by professionals academics students and researchers alike as the most practical modern textbook on open channel flow available This new edition includes substantial new material on hydraulic modelling in particular addressing unsteady open channel flows There are also many new exercises and projects including a major new revision assignment This innovative textbook contains numerous examples and practical applications and is fully illustrated with photographs Dr Chanson introduces the basic principles of open channel flow and takes readers through the key topics of sediment transport hydraulic modelling and the design of hydraulic structures Comprehensive coverage of the basic principles of key application areas of the hydraulics of open channel flow New exercises and examples added to aid understanding Ideal for use by students and lecturers in civil and environmental engineering **FLUID POWER CONTROL SYSTEMS** MD FAIYAZ AHMED, 2016-10-03 Detailed coverage of the concepts of Hydraulics Pneumatic Control valves Lever systems Objective type questions included in each chapter Detailed study of each and every topic in the chapter Basic principles of hydraulics and hydraulic schematic reading, 1984 Annotated Bibliography on the Geologic, Hydraulic, and Engineering Aspects of Tidal Inlets John H. Barwis, 1976 Engineer Memoirs Paul mm Walker, 2008-10 This manuscript is the product of a tape recorded interview conducted by Dr Paul Walker of the Historical Div Office of the Chief of Engineers U S Army Corps of Engineers with Lt Gen Walter K Wilson Jr USA Ret in Mobile Alabama in Jan 1978 Lt Gen Wilson had a distinguished career in the Corps of Engineers which culminated with his selection as Chief of Engineers in 1961 Photos

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