

FLUID MECHANICS – TYPICAL EXAM QUESTIONS (30 minutes each)

1. A 5 m wide tank with an L-shaped cross section, as shown in Fig. Q1, has a gate which is hinged at the top at its right hand end. The tank is filled with water to a level of 8 m. Determine:

- (a) The torque required at the hinge to just keep the gate closed. [20 marks]
 (b) The force on the base of the tank, and comment on why this is not the same as the weight of the water. [5 marks]

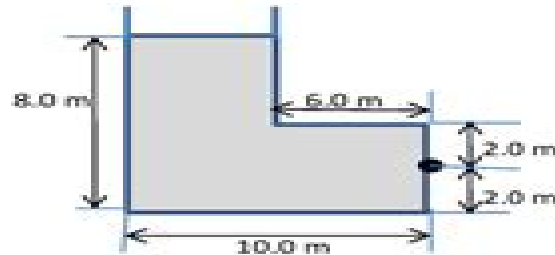


Fig. Q1

2. Water flows along a circular pipe and is turned vertically through 180° by a reducing bend as shown in Fig. Q2. The rate of flow in the pipe is 20 litres/s, the pressure measured at the entrance to the bend is 120 kN/m^2 , and the volume of fluid in the bend is 0.1 m^3 . What is the magnitude and direction of the force exerted by the fluid on the bend? Ignore any friction losses. [25 marks]

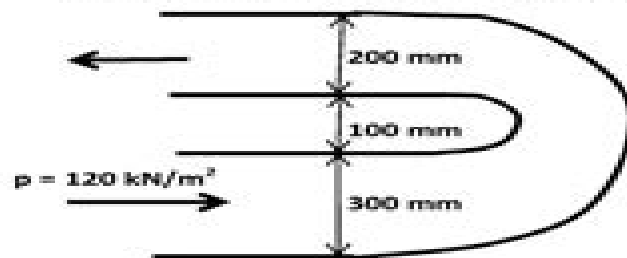


Fig. Q2

3. Water is flowing in a 300 mm pipeline fitted with a 45° bend in the vertical plane. The diameter at the outlet of the bend is 150 mm. The pipe axis at the inlet is horizontal and the outlet is 1.5 m above the inlet. If the flow through the bend is $0.4 \text{ m}^3/\text{s}$ and a head-loss of 0.5 m occurs in the bend, calculate the magnitude and direction of the resultant force the bend support must withstand. The volume of the bend is 0.075 m^3 and the pressure at the inlet is 300 kN/m^2 . [25 marks]

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Table of Contents Mechanics Questions And Solutions

1. Understanding the eBook Mechanics Questions And Solutions
 - The Rise of Digital Reading Mechanics Questions And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Questions And Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics Questions And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Questions And Solutions
 - Personalized Recommendations
 - Mechanics Questions And Solutions User Reviews and Ratings
 - Mechanics Questions And Solutions and Bestseller Lists
5. Accessing Mechanics Questions And Solutions Free and Paid eBooks
 - Mechanics Questions And Solutions Public Domain eBooks
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 - Mechanics Questions And Solutions Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Mechanics Questions And Solutions Compatibility with Devices
 - Mechanics Questions And Solutions Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Mechanics Questions And Solutions
 - Highlighting and Note-Taking Mechanics Questions And Solutions
 - Interactive Elements Mechanics Questions And Solutions
8. Staying Engaged with Mechanics Questions And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Questions And Solutions
9. Balancing eBooks and Physical Books Mechanics Questions And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Questions And Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics Questions And Solutions
 - Setting Reading Goals Mechanics Questions And Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics Questions And Solutions
 - Fact-Checking eBook Content of Mechanics Questions And Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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