

HYDRAULICS & GEOTECHNICAL ENGINEERING  
NOVEMBER 2018

1. Given the unit weight of air to be constant at  $12 \text{ N/m}^3$ , determine the approximate height of a mountain, in meters, if a mercury barometer at its base reads 760 mm and at the same instant another barometer at the top of the mountain reads 300 mm.
 

A. 5085	C. 5136
B. 5029	D. 5114
2. A tank containing water has a total weight of 75 kg when weighed. Obtain the new reading on the weighing scale if a 50 mm by 50 mm piece of wood is held vertically in the water to a depth of 700 mm.
 

A. 77.05	C. 75.55
B. 76.75	D. 74.25
3. A cube, 310 mm on each side is to be held in equilibrium under water by attaching a lightweight foam buoy to it. The specific weight of the cube and foam are  $20 \text{ kN/m}^3$  and  $0.81 \text{ kN/m}^3$ , respectively. Evaluate the minimum volume of the foam required, in  $\text{m}^3$ . Neglect the attachments in the calculations.
 

A. 0.0432	C. 0.0337
B. 0.0559	D. 0.0248

**Situation 1** – A right circular cylinder having a diameter of 1.00 m and weighing 850 N is held in position by an anchor block such that 0.35 m of the cylinder is below the surface of the water with its axis vertical. The anchor block has a volume of 0.50 cubic meter and weighs 24 kN per cubic meter in air. Assume sea water to have a specific gravity = 1.03. Neglect the weight and volume of the cable.

4. ① Evaluate the buoyant force on the cylinder for the position described, in kN;
 

A. 2.78	C. 5.36
B. 3.21	D. 4.21
5. ② Evaluate the tensile force in the wire for the given draft of the cylinder.
 

A. 3.85 kN	C. 1.93 kN
B. 3.42 kN	D. 1.54 kN
6. ③ Evaluate the rise in the tide that will lift the anchor from the bottom of the sea, in meter(s).
 

A. 0.983	C. 0.752
B. 0.633	D. 0.425
7. A rigid gate of a flood control structure in a river is 6 m wide by 4 m high and weighs 10 kN. With its longer edge horizontal, it is moved up and down with its short edges sliding in vertical channel guides. Evaluate the force, in kN, needed to raise the gate when the surface of the water is 2 m above its top edge. There is no water on the downstream side of the gate. The coefficient of friction between the gate and the channel guides is 0.15. Neglect the buoyant effect of the water on the gate and the weight of the cables connected to the gate.
 

A. 104	C. 110
B. 151	D. 92

# Civil Engineering Board Exam Problems Solutions

**Civil Service Chronicle, New York**



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### **Table of Contents Civil Engineering Board Exam Problems Solutions**

1. Understanding the eBook Civil Engineering Board Exam Problems Solutions
  - The Rise of Digital Reading Civil Engineering Board Exam Problems Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Board Exam Problems 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 eBook Civil Engineering Board Exam Problems Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Board Exam Problems Solutions
  - Personalized Recommendations
  - Civil Engineering Board Exam Problems Solutions User Reviews and Ratings

- Civil Engineering Board Exam Problems Solutions and Bestseller Lists
- 5. Accessing Civil Engineering Board Exam Problems Solutions Free and Paid eBooks
  - Civil Engineering Board Exam Problems Solutions Public Domain eBooks
  - Civil Engineering Board Exam Problems Solutions eBook Subscription Services
  - Civil Engineering Board Exam Problems Solutions Budget-Friendly Options
- 6. Navigating Civil Engineering Board Exam Problems Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Civil Engineering Board Exam Problems Solutions Compatibility with Devices
  - Civil Engineering Board Exam Problems Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Civil Engineering Board Exam Problems Solutions
  - Highlighting and Note-Taking Civil Engineering Board Exam Problems Solutions
  - Interactive Elements Civil Engineering Board Exam Problems Solutions
- 8. Staying Engaged with Civil Engineering Board Exam Problems Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Civil Engineering Board Exam Problems Solutions
- 9. Balancing eBooks and Physical Books Civil Engineering Board Exam Problems Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Civil Engineering Board Exam Problems Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Civil Engineering Board Exam Problems Solutions
  - Setting Reading Goals Civil Engineering Board Exam Problems Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Civil Engineering Board Exam Problems Solutions
  - Fact-Checking eBook Content of Civil Engineering Board Exam Problems 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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