

HYDRAULICS & GEOTECHNICAL ENGINEERING  
NOVEMBER 2018

- 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
- 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
- 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. Neglecting the weight and volume of the cable.

- 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
  - 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
  - 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
- 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

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