

Physics

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(Chapter 9) (Mechanical Properties of Fluids) (Exercises) (Class 11)

Question 9.6:

Toricelli's barometer used mercury. Pascal duplicated it using French wine of density 984 kg m^{-3} . Determine the height of the wine column for normal atmospheric pressure.

Answer 9.6:

Density of mercury, $\rho_1 = 13.6 \times 10^3 \text{ kg/m}^3$

Height of the mercury column, $h_1 = 0.76 \text{ m}$

Density of French wine, $\rho_2 = 984 \text{ kg/m}^3$

Height of the French wine column = h_2

Acceleration due to gravity, $g = 9.8 \text{ m/s}^2$

The pressure in both the columns is equal, i.e.,

Pressure in the mercury column = Pressure in the French wine column

$$\rho_1 h_1 g = \rho_2 h_2 g$$

$$h_2 = \frac{\rho_1 h_1}{\rho_2}$$

$$= \frac{13.6 \times 10^3 \times 0.76}{984} = 10.5 \text{ m}$$

Hence, the height of the French wine column for normal atmospheric pressure is 10.5 m.

Question 9.7:

A vertical off-shore structure is built to withstand a maximum stress of 10^9 Pa . Is the structure suitable for putting up on top of an oil well in the ocean? Take the depth of the ocean to be roughly 3 km, and ignore ocean currents.

Answer 9.7:

Yes. The maximum allowable stress for the structure, $P = 10^9 \text{ Pa}$

Depth of the ocean, $d = 3 \text{ km} = 3 \times 10^3 \text{ m}$ and Density of water, $\rho = 10^3 \text{ kg/m}^3$

Acceleration due to gravity, $g = 9.8 \text{ m/s}^2$

The pressure exerted because of the sea water at depth, $d = \rho d g$

$$= 3 \times 10^3 \times 10^3 \times 9.8 = 2.94 \times 10^7 \text{ Pa}$$

The maximum allowable stress for the structure (10^9 Pa) is greater than the pressure of the sea water ($2.94 \times 10^7 \text{ Pa}$). The pressure exerted by the ocean is less than the pressure that the structure can withstand. Hence, the structure is suitable for putting up on top of an oil well in the ocean.

Question 9.8:

A hydraulic automobile lift is designed to lift cars with a maximum mass of 3000 kg. The area of cross-section of the piston carrying the load is 425 cm^2 . What maximum pressure would the smaller piston have to bear?

Answer 9.8:

The maximum mass of a car that can be lifted, $m = 3000 \text{ kg}$

Area of cross-section of the load-carrying piston, $A = 425 \text{ cm}^2 = 425 \times 10^{-4} \text{ m}^2$

The maximum force exerted by the load, $F = mg = 3000 \times 9.8 = 29400 \text{ N}$

The maximum pressure exerted on the load-carrying piston, $P = \frac{F}{A} = \frac{29400}{425 \times 10^{-4}} = 6.917 \times 10^5 \text{ Pa}$

Pressure is transmitted equally in all directions in a liquid. Therefore, the maximum pressure that the smaller piston would have to bear is $6.917 \times 10^5 \text{ Pa}$.

Physics Chapter 9 Answers

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