

PHYSICS

Fluid Mechanics

QUESTIONS BANK

1. A bucket contains water filled upto a height = 15 cm. The bucket is tied to a rope which is passed over a frictionless light pulley and the other end of the rope is tied to a weight of mass which is half of that of the (bucket + water). The water pressure above atmosphere pressure at the bottom is

(A) 0.5 kPa (B) 1 kPa
(C) 5 kPa (D) None

Solution :

$$\begin{aligned} \text{Pressure} &= h \rho g_w \\ a &= g/3 \\ g_w &= g - g/3 = 2g/3 \\ \Rightarrow P &= \frac{0.15 \times 1000 \times 2 \times 10}{3} \end{aligned}$$

$$P = 1 \text{ kPa}$$

Hence the answer is (B).

2. Some liquid is filled in a cylindrical vessel of radius R. Let F_1 be the force applied by the liquid on the bottom of the cylinder. Now the same liquid is poured into a vessel of uniform square cross-section of side R. Let F_2 be the force applied by the liquid on the bottom of this new vessel. Then :

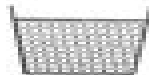
(A) $F = \pi F_2$ (B) $F_1 = \frac{F_2}{\pi}$
(C) $F_1 = \sqrt{\pi} F_2$ (D) $F_1 = F_2$

Solution :

Force is same pressure is different.

Hence the answer is (D).

3. A liquid of mass 1 kg is filled in a flask as shown in figure. The force exerted by the flask on the liquid is ($g = 10 \text{ m/s}^2$) [Neglect atmospheric pressure]



(A) 10 N (B) greater than 10 N
(C) less than 10 N (D) zero

Solution :

$$F = mg$$

$$F = 10 \text{ N}$$

Hence the answer is (A).

4. A U-tube having horizontal arm of length 20 cm, has uniform cross-sectional area = 1 cm^2 . It is filled with water of volume 60 cc. What volume of a liquid of density 4 g/cc should be poured from one side into the U-tube so that no water is left in the horizontal arm of the tube?

(A) 60 cc (B) 45 cc
(C) 50 cc (D) 35 cc

Solution :



$$\begin{aligned} 60 \rho_w g &= h \rho_l g \\ \Rightarrow 60 \times 1 \times g &= h \times 4 \Rightarrow h = 15 \text{ cm} \end{aligned}$$



$$\begin{aligned} \text{So, volume} &= Ah \\ &= 1 \times 35 = 35 \text{ cm}^3 \end{aligned}$$

Hence the answer is (D).

5. An open-ended U-tube of uniform cross-sectional area contains water (density $1.0 \text{ gram/centimeter}^3$) standing initially 20 centimeters from the bottom in each arm. An immiscible liquid of density $4.0 \text{ grams/centimeter}^3$ is added to one arm until a layer 5 centimeters high forms, as shown in the figure above. What is the ratio h_2/h_1 of the heights of the liquid in the two arms?

Fluid Flow Kinematics Questions And Answers

F Rizvi



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