Determination of density of an irregular solid, Density of a liquid, density bottle.
CLASS-VIIIC(RANK UP)

SUBJECT : PHYSICS
CHAPTER NUMBER: 2
CHAPTER NAME : PHYSICAL QUANTITIES AND MEASUREMENT

Home Assignment

1. The density of alcohol is 600 kg/m^{-3}. Express it in $g\ cm^{-3}$.

2. A piece of wood of mass 150 g has a volume of 200 cm³. Find the density of wood in (a) C.GS unit, (b) S.I. unit

3. Calculate the density of solid from the following data:

    (a) Mass of solid (M) = 72g

    (b) Initial volume of water in measuring cylinder = 24 ml

    (c) Final volume of water when solid is completely immersed in water 42 ml.

4. How does the density of a liquid (or gas) vary with temperature?

5. What is a density bottle? How is it used to find the density of a liquid?

Density of fluid using density bottle, Relative density
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Home Assignment

1. The mass of a density bottle is 35g when empty, 65g when filled with water, and 59g when filled with alcohol. Find the relative density of alcohol.

2. What is a density bottle? How is it used to find the density of a liquid?

3. Distinguish between density and relative density.

4. Explain the meaning of the statement 'Relative density of aluminum is 2:7.

5. The mass of an empty density bottle is 21.8g, when filled completely with water it is 41.8g and when filled completely with liquid it is 40.6g. find

    a. The volume of density bottle

    b. The relative density of liquid.

6. From the following observations calculate the density and relative density of a brine solution

    a. Mass of empty density bottle = 22g

    b. Mass of bottle + water = 50g

    c. Mass of bottle + brine solution = 54g

THANKING YOU

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