



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 23.04.20

Duration: 40 min

Worksheet Solution 15

Full Marks: 15

PHYSICAL QUANTITIES AND MEASUREMENT/ DENSITY OF LIQUIDS AND RELATIVE DENSITY

Choose the Correct options:

- Unit of relative density in SI system is
(a) g/cc, (b) kg/m^3 , (c) kgf/m^3 , (d) **no unit**
- Mass of an empty density bottle is 20 g. When filled with water it is 25 g. When filled with another liquid 30 g. Relative density of the other liquid is
(a) 1, (b) **2**, (c) 0.5, (d) 6
- _____ is a cylindrical laboratory instrument with markings, used to measure the volume of liquids.
(a) Eureka can (b) **Measuring cylinder** (c) Hydrometer (d) None of these
- Measuring cylinder has _____ grooved over it
(a) Scale (b) **Marking** (c) Dates (d) None of these
- A eureka can has a _____ in it
(a) pipe (b) **spout** (c) funnel (d) none of these
- Hydrometer is a device to measure _____ of liquid.
(a) Volume (b) Density (c) **Relative density** (d) None of these
- A boat floating in a tank is carrying passengers. If the passengers drink water, the water level of the tank
(a) Rises (b) falls (c) **remains unchanged** (d) depends upon the atmospheric pressure
- The physical quantity that differentiates one substance from other is called _____
(a) Area (b) Volume (c) Mass (d) **Density**
- Density of sea water is _____ than density of river water.
(a) **more** (b) less (c) equal (d) None of these
- The capacity of a density bottle is
(a) **50 ml** (b) 100 ml (c) 150 ml (d) 200 ml
- Which of the following is specified during measurement of density?
(a) Pressure (b) humidity (c) **temperature** (d) acceleration due to gravity.
- The density of aluminium is 2700 kgm^{-3} . What is the value of relative density?
(a) 2700 (b) 27 (c) 54 (d) **2.7**
- Another name for relative density is
(a) Density (b) gravity (c) specific density (d) **specific gravity**.
- The density of water becomes 1 g/cc
(a) Below 4°C (c) **at 4°C** (c) above 4°C (d) at all temperatures
- Liquids are _____ dense than gases
(a) Less (b) **More** (c) Equal (d) None of these