MCQ based on experiment-1

1. The density of ice at 0ºC-
   (a) 930 kg/m³   (b) 900 kg/m³
   (c) 920 kg/m³   (d) 910 kg/m³

2. Specific gravity or relative density unity is-
    is called
   (a) kg/m³   (b) kg/m²
   (c) kg   (d) none

3. What is the principle of working of a physical balance
   (a) Its works on the principle of moments
   (b) Its works on the principle of force
   (c) Its works on the principle of acceleration
   (d) Its works on the principle of Newtons third law.

4. The S.I unit of force is -
   (a) Joule   (b) An external force
   (c) An internal force   (d) Two balanced forces

5. Formula for the determination of density is-
   (a) D=M/V   (b) D = V/ M
   (c) D=V XM   (d) None

6. Density of a solid is 18300 . What would be its relative density?
   (a) 1830   (b) 183
   (c) 18.3   (d) 1.83

7. The unit of pressure is-
   (a) Pascal   (b) kg/m
   (c) kg/ m²   (d) kg/m³

8. mass of a body is-
   (a) measurement of inertia   (b) weight
   (c) momentum per sec   (d) quantity of matter contained

9. What is weight-
   (a) Mass x g
   (b) Mass /g

(c) Volume/mass
(d) none

10. Atomic unit of mass is
   (a) 1.6 * 10-12 kg   (b) 1.6* 10-11
   (c) none   (d) 1.6 * 10-10

11. Which instrument determine the gravitational mass
   (a) chemical balance   (b) electronic balance
   (c) by volumetric analysis   (d) spring balance

12. Archimedes principle is used in making
   (a)aeroplanes   (b)fast moving trains
   (c) space ship   (d) submarines

13. The mass per unit volume of a substance is known as
   (a) density   (b) mass
   (c) relative density   (d) volume

14. Pressure is equal to
   (a) thrust / area
   (b) thrust * area
   (c) area / thrust
   (d) none

15. The volume of a 500gm sealed tin is 350 cm3. What would be the mass of the water displaced by it
   (a) 500gm   (b) 350 gm
   (c) 850 gm   (d)   175000 gm

16. The upthrust exerted by water on the emersing body is known as
   (a) density   (b) upthrust
   (c) buoyant force   (d)   upward force
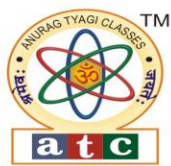
17.Loss of weight of a body emersed in a liquid is
   (a) equal to the weight of the liquid displaced
   (b) more than the weight of liquid displaced
   (c) less than the weight of liquid displaced
   (d) zero

18. The total force applied on a surface is called

(a) force (b) momemtum
(c) pressure (d) thrust

19. Buoyant force is
    (a) upthrust exerted by liquid
    (b) pressure
    (c) A type of rocket
    (d) none of these

20.
    (a) 40 g sugar + 60 g water
    (b) 50 g sugar + 50 g water
    (c) 20 g sugar + 60 g water
    (d) 40 g sugar + 40 g water

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