

Duration: 30 Mins

Total Marks: 15

ID: ITISKILL7319F4

Student Name: _____ Roll No: _____

1. What is the volume (V) of mercury in cm^3 , if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm^3 ?

- A) 73.43 cm^3 B) 73.23 cm^3
C) 73.53 cm^3 D) 73.33 cm^3

2. What is called mass per unit volume of a substances?

- A) Volume B) Mass
C) Weight D) Density

3. What is the volume of mercury in cm^3 , if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm^3 ?

- A) 10.0 cm^3 B) 13.6 cm^3
C) 10.6 cm^3 D) 136 cm^3

4. What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

- A) Specific gravity B) Weight
C) Density D) Mass

5. What is the specific gravity of the metal, if the weighs 6.5 kgf in air and 3.5 kgf in water?

- A) 3.166 B) 6.166
C) 2.166 D) 1.166

6. What is the block weighs (W) in kg, if volume (V) is 320 cm^3 and density 8.9 g/cm^3 ?

- A) 2.448 B) 2.648 kg
C) 2.848 kg D) 2.948 kg

7. What is the weight force of a car has a mass of 800 kg?(Take $g = 9.81 \text{ m/sec}^2$)

- A) 7847 Newton B) 7487 Newton
C) 7848 Newton D) 7748 Newton

8. What is the force with which a body is attracted by the earth towards its centre?

- A) Volume B) Weight
C) Density D) Mass

9. What is the density of aluminium?

- A) 4.7 g/cm^3 B) 3.7 g/cm^3
C) 5.7 g/cm^3 D) 2.7 g/cm^3

10. What is the density (r) in g/cm^3 of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm^3 ?

- A) 7.5 g/cm^3 B) 6.6 g/cm^3
C) 7.2 g/cm^3 D) 6.9 g/cm^3

11. What is termed as the quantity of matter contained in a body?

- A) Density B) Mass
C) Specific gravity D) Volume

12. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm^3 ?

- A) 18.5 B) 19.5
C) 19 D) 8

13. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

- A) 15 B) 25
C) 10 D) 6

14. What is the mass if the density of a body is 7.6 g/cm^3 and its volume is 25 cm^3 ?

- A) 190 grams B) 220 grams
C) 210 grams D) 200 grams

15. What is the mass in gram, if a force of 15 dynes acting on a mass m producing an acceleration of 2.5 cm/sec^2 ?

- A) 9 grams B) 8 grams
C) 6 grams D) 7 grams