

**Duration: 30 Mins**

**Total Marks: 15**

**Q.ID: ITISKILL5642MA**

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

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

**Answer: B) 2.166**

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

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

**Answer: D) Weight**

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

- A) 10.0 cm<sup>3</sup>                      B) 136 cm<sup>3</sup>  
C) 13.6 cm<sup>3</sup>                      D) 10.6 cm<sup>3</sup>

**Answer: A) 10.0 cm<sup>3</sup>**

**4.** What is called mass per unit volume of a substance?

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

**Answer: D) Density**

**5.** 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<sup>2</sup>?

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

**Answer: B) 6 grams**

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

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

**Answer: B) 2.848 kg**

**7.** What is the specific gravity of the solid, if density of the solid is 19.5 g/cm<sup>3</sup>?

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

**Answer: B) 19.5**

**8.** What is the mass if the density of a body is 7.6

g/cm<sup>3</sup> and its volume is 25 cm<sup>3</sup>?

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

**Answer: D) 190 grams**

**9.** What is called the ratio between the density of a substance and the density of water at 4 Degree Centigrade?

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

**Answer: D) Specific gravity**

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

- A) 6.6 g/cm<sup>3</sup>                      B) 6.9 g/cm<sup>3</sup>  
C) 7.2 g/cm<sup>3</sup>                      D) 7.5 g/cm<sup>3</sup>

**Answer: D) 7.5 g/cm<sup>3</sup>**

**11.** What is the density of aluminium?

- A) 5.7 g/cm<sup>3</sup>                      B) 4.7 g/cm<sup>3</sup>  
C) 2.7 g/cm<sup>3</sup>                      D) 3.7 g/cm<sup>3</sup>

**Answer: C) 2.7 g/cm<sup>3</sup>**

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

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

**Answer: A) Mass**

**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) 6                      B) 10  
C) 25                      D) 15

**Answer: A) 6**

**14.** What is the weight force of a car has a mass of 800 kg? (Take g = 9.81 m/sec<sup>2</sup>)

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

**Answer: A) 7848 Newton**

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

- A) 73.53 cm<sup>3</sup>                      B) 73.23 cm<sup>3</sup>

C)  $73.33 \text{ cm}^3$  D)  $73.43 \text{ cm}^3$

**Answer: A)  $73.53 \text{ cm}^3$**

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