

# ITI Quiz - 06-Mar-2026

## 11:55 AM

Q. ID: ITISKILL7128PV

March 2026

Iti

Question Paper

Duration: 30 Mins

Total Marks: 15

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

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

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

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

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

3. What is the specific gravity of the solid, if density of the solid is  $19.5 \text{ g/cm}^3$ ?

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

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

- A)  $136 \text{ cm}^3$   
C)  $10.0 \text{ cm}^3$
- B)  $10.6 \text{ cm}^3$   
D)  $13.6 \text{ cm}^3$

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

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

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

- A)  $73.53 \text{ cm}^3$   
C)  $73.23 \text{ cm}^3$
- B)  $73.43 \text{ cm}^3$   
D)  $73.33 \text{ cm}^3$

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

- A)  $7.5 \text{ g/cm}^3$   
C)  $6.6 \text{ g/cm}^3$
- B)  $6.9 \text{ g/cm}^3$   
D)  $7.2 \text{ g/cm}^3$

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

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

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

10. What is the block weighs (W) in kg, if volume (V) is  $320 \text{ cm}^3$  and density  $8.9 \text{ g/cm}^3$ ?

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

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

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

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

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

13. What is the density of aluminium?

- A)  $5.7 \text{ g/cm}^3$   
C)  $2.7 \text{ g/cm}^3$
- B)  $3.7 \text{ g/cm}^3$   
D)  $4.7 \text{ g/cm}^3$

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

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

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

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