

April 2026

GOVT ITI PERDOOR

Question Paper

Duration: 20 Mins

Total Marks: 10

ID: ITISKILL4186BT

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

1. What is the density ( $\rho$ ) 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)  $6.6 \text{ g/cm}^3$     B)  $7.2 \text{ g/cm}^3$   
C)  $6.9 \text{ g/cm}^3$     D)  $7.5 \text{ g/cm}^3$

2. 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) 9 grams                      B) 8 grams  
C) 7 grams                      D) 6 grams

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

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

4. What is the density of aluminium?

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

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

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

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

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

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

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

8. 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) 200 grams                      B) 190 grams  
C) 220 grams                      D) 210 grams

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

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

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

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