

# Monthly Test workshop calculation and science December 2025

Q. ID: ITISKILL8158WW

December 2025

GOVT ITI VITTLA

Question Paper

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL8158WW

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

1. Which state of equilibrium's example is, A cone resting on its base?

- A) Both A and B                      B) Stable  
C) Neutral                              D) Un-stable

2. Where the centre of gravity of a circle lies?

- A) At its centre                      B) Any where on its radius  
C) Any where on its circumference                      D) Any where on its diameter

3. What is the centre of gravity of a rectangular body?

- A) At the corners                      B) Shorter side of rectangle  
C) Longer side of rectangle                      D) At the point of intersection of its diagonals

4. What is the centre of gravity of a solid hemisphere from its base?

- A)  $3r/8$                                   B)  $r/2$   
C)  $3r/4$                                   D)  $4r/5$

5. What is the name of the point at which all the weight of the body concentrated?

- A) Central point                      B) Initial point  
C) Centre of gravity                      D) Centroid

6. What is the centre of gravity of a right circular cone from its base?

- A)  $h/5$                                       B)  $h/2$   
C)  $h/4$                                       D)  $h/3$

7. What is the centre of gravity of a semi circle of diameter 12 cm?

- A) 2.24 cm                                  B) 2.54 cm  
C) 3.25 cm                                  D) 2.75 cm

8. Which state of equilibrium's example is A cone resting on its tip?

- A) Unstable                                  B) Stable  
C) Horizontal                                  D) Neutral

9. What is the centre of gravity of a sphere?

- A) At the centre                                  B) At the diameter  
C) At the radius                                  D) On the circumference

10. Which one of the following geometrical shapes centre of gravity lies from its base is  $1/3$  of its height?

- A) Triangle                                  B) Rhombus  
C) Square                                      D) Cone