

Monthly Test

workshop calculation and science December 2025

Q. ID: ITISKILL0532LF

December 2025

GOVT ITI VITTLA

Question Paper

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL0532LF

Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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