

Monthly Test

workshop calculation and science

NOVEMBER 2025

Q. ID: ITISKILL9551FE

November 2025

GOVT ITI VITTLA

Question Paper

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL9551FE

Student Name: _____ Roll No: _____

1. Which affects the centre of gravity of the object?

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

2. Which one of the following geometrical shapes centre of gravity lies from its base is $\frac{1}{3}$ of its height?

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

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

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

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

- A) $\frac{h}{2}$ B) $\frac{h}{3}$
C) $\frac{h}{5}$ D) $\frac{h}{4}$

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

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

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

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

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

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

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

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

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

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

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

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