

Monthly Test

workshop calculation and science

NOVEMBER 2025

Q. ID: ITISKILL9551FE

November 2025

GOVT ITI VITTLA

Answer Key

Duration: 30 Mins

Total Marks: 10

Q.ID: ITISKILL9551FE

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

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

Answer: D) Stable

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

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

Answer: A) Triangle

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

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

Answer: A) $\frac{h}{4}$

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

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

Answer: D) Centre of gravity

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

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

Answer: B) Unstable

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

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

Answer: C) At the centre

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

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

Answer: B) Mass

8. 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

Answer: D) 2.54 cm

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

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

Answer: C) At the point of intersection of its diagonals

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

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

Answer: B) At its centre