

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. 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

Answer: A) At its centre

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

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

Answer: B) Unstable

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

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

Answer: D) $h/4$

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

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

Answer: A) 2.54 cm

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

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

Answer: D) Mass

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

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

Answer: D) Stable

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

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

Answer: D) Triangle

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

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

Answer: A) Centre of gravity

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

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

Answer: C) At the centre

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

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

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