

Monthly test for the month of october 2025

Q. ID: ITISKILL4551A3

June 2026

Government ITI KUKANOOR

Answer Key

Duration: 30 Mins

Total Marks: 10

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

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

Answer: C) 2.54 cm

2. Which affects the centre of gravity of the object

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

Answer: D) Mass

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

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

Answer: A) $h/4$

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

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

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

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

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

Answer: C) Unstable

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

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

Answer: B) Stable

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

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

Answer: D) At the centre

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

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

Answer: D) $3r/8$

9. 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

Answer: C) At its centre

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

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

Answer: A) Centre of gravity