

Monthly test for the month of october 2025

Q. ID: ITISKILL4551A3

June 2026

Government ITI KUKANOOR

Question Paper

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL4551A3

Student Name: _____ Roll No: _____

1. Which affects the centre of gravity of the object

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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