

Monthly test for month of january

Government ITI KUKANOOR

Q. ID: ITISKILL7772FD

January 2026

Answer Key

Duration: 30 Mins

Total Marks: 11

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

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

Answer: D) At the centre

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

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

Answer: B) $h/4$

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

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

Answer: C) Triangle

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

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

Answer: B) $3r/8$

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

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

Answer: C) Unstable

6. Which affects the centre of gravity of the object

- A) Weight B) Density

C) Shape

D) Mass

Answer: D) Mass

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

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

Answer: C) Centre of gravity

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

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

Answer: B) 2.54 cm

9. 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

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

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

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

Answer: B) Stable

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

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

Answer: D) At its centre