

8. Friction

Q. ID: ITISKILL4521US

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Answer Key

Duration: 30 Mins

Total Marks: 11

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

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

Answer: A) At its centre

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

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

Answer: B) At the centre

3. 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

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

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

Answer: D) $h/4$

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

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

Answer: A) Stable

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

- A) Horizontal
- B) Neutral

- C) Stable
- D) Unstable

Answer: D) Unstable

7. Which one of the following geometrical shape's 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 centre of gravity of a semi circle of diameter 12 cm?

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

Answer: B) 2.54 cm

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

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

Answer: C) $3r/8$

10. Which affects the centre of gravity of the object

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

Answer: A) Mass

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

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

Answer: A) Centre of gravity