

Monthly test september

Q. ID: ITISKILL6650SC

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Govt ITI vitla

Question Paper

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Score: 5/11 (45.45%)

Code: 5059

1. Which affects the centre of gravity of the object

- A) Weight
B) **Mass (Correct)**
C) Density
D) Shape

A) $4r/5$

B) **$3r/8$**

C) $3r/4$

D) $r/2$ (Incorrect)

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

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

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

A) **At the centre**

B) On the circumference (Incorrect)

C) At the diameter

D) At the radius

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

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

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

- A) Stable
B) Neutral
C) **Unstable (Correct)**
D) Horizontal

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

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

9. 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 (Incorrect)

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

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

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

- A) Un-stable
B) Neutral
C) **Stable**
D) Bothe A and B (Incorrect)

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

- A) 2.24 cm
B) **2.54 cm (Correct)**
C) 3.25 cm
D) 2.75 cm