

Monthly test september

Q. ID: ITISKILL6650SC

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Govt ITI vitla

Question Paper

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Score: 4/11 (36.36%)

Code: 5803

1. Which affects the centre of gravity of the object

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

A) $4r/5$

C) $3r/4$

B) $3r/8$ (Correct)

D) $r/2$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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