

Monthly test september

Q. ID: ITISKILL6650SC

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Govt ITI vitla

Question Paper

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Score: 6/11 (54.55%)

Code: 8310

1. Which affects the centre of gravity of the object

- A) Weight
B) **Mass**
C) Density (Incorrect)
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
B) **Centre of gravity**
C) Centroid
D) Central point (Incorrect)

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

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

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

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

A) Stable

C) **Unstable (Correct)**

B) Neutral

D) Horizontal

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

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

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

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 (Correct)**
D) Cone

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

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

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

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

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

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