

Monthly test september

Q. ID: ITISKILL6650SC

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Govt ITI vitla

Question Paper

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Score: 2/11 (18.18%)

Code: 4230

1. Which affects the centre of gravity of the object

A) Weight (Incorrect)

B) Mass

C) Density

D) Shape

A) $4r/5$

B) $3r/8$ (Correct)

C) $3r/4$

D) $r/2$

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

B) Any where on its radius

C) Any where on its circumference

D) Any where on its diameter (Incorrect)

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

A) Stable

B) Neutral (Incorrect)

C) Unstable

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 (Incorrect)

B) Rhombus

C) Triangle

D) Cone

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 (Incorrect)

B) Neutral

C) Stable

D) Both A and B

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

A) 2.24 cm

B) 2.54 cm

C) 3.25 cm

D) 2.75 cm (Incorrect)