

Monthly test september

Q. ID: ITISKILL6650SC

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Govt ITI vitla

Question Paper

Student: Rajesh

Score: 2/11 (18.18%)

Code: 0517

1. Which affects the centre of gravity of the object

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

A) 4r/5 (Incorrect)

B) **3r/8**

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

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

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

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 (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
B) Neutral (Incorrect)
C) **Stable**
D) Both A and B

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 (Incorrect)
B) **2.54 cm**
C) 3.25 cm
D) 2.75 cm