

Student: srl

Score: 22/22 (100.00%)

Code: 3162

1. Which affects the centre of gravity of the object?

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

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 (Correct)**
D) Central point

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

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

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

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

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 (Correct)**
B) Shorter side of rectangle
D) At the corners

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

- A) $4r/5$
C) $3r/4$
B) **$3r/8$ (Correct)**
D) $r/2$

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

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

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

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

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

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

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

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 (Correct)**
D) 2.75 cm

12. Which affects the centre of gravity of the object

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

13. 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 (Correct)**
D) Central point

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

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

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

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

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

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

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

- A) $4r/5$
C) $3r/4$
B) **$3r/8$ (Correct)**
D) $r/2$

18. 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

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

A) Stable

B) Neutral

C) Unstable (Correct)

D) Horizontal

20. Which one of the following geometrical shape's centre of gravity lies from its base is $\frac{1}{3}$ of its height?

A) Square

B) Rhombus

C) Triangle (Correct)

D) Cone

21. 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

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

A) 2.24 cm

B) 2.54 cm (Correct)

C) 3.25 cm

D) 2.75 cm