

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

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

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

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

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

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

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

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

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

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

23. What is the compounded annual interest, for a loan amount of Rs.80000/- at 10% per annum for a period of 2 years?

- A) Rs.92400/-
- B) Rs.94800/-
- C) Rs.16800/-
- D) Rs.96800/

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

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

25. What is the compounded amount, if the principal of Rs.30000/- and interest earned at 7% per annum is Rs.4347?

- A) Rs.30347/-
- B) Rs.32347/-
- C) Rs.34347/-
- D) Rs.33347/-