

QUIZ NO: 561

TOPIC: ENGINEERING MECHANICS

DATE: 01/03/2022

1. The moment of inertia for an area relative to a line or axis perpendicular to the plane of area is called

- [A] Polar moment of force
- [B] Moment of force
- [C] Polar moment of inertia
- [D] Moment of inertia

Answer: C

2. The point in a plane figure at which whole area of the figure is assumed to act is called

- [A] Centre of pressure
- [B] Centre of gravity
- [C] Centroid
- [D] Shear center

Answer: C

3. A right-angled triangle revolving about its perpendicular side forming a ___solid.

- [A] Pyramid
- [B] Frustum
- [C] Prism
- [D] Cone

Answer: D

4. The distance of centre of gravity of semicircle of radius 3 cm, lies at a distance

- [A] $3/\pi$ from the diameter
- [B] $4/\pi$ from the diameter
- [C] $4/3\pi$ from the diameter
- [D] $3/4\pi$ from the diameter

Answer: B

5. The distance from an axis of reference where the mass or area of body is assumed to be concentrated is called

- [A] Radius of gyration
- [B] Centre of gravity
- [C] Moment of inertia
- [D] Centroid

Answer: A

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6. The ratio of moment of inertia of a rectangle about its centroid axis to the moment of inertia about its base

- [A] $1/4$
- [B] $1/2$
- [C] $3/4$
- [D] 2

Answer: A

7. The moment of inertia of a rectangular section 3 cm wide and 4cm deep about x-x axis is

- [A] 9cm^4
- [B] 12cm^4
- [C] 16cm^4
- [D] 20cm^4

Answer: C

8. The C.G of a solid circular cone, divides the axis in the ratio

- [A] 4:1
- [B] 3:2
- [C] 2:1
- [D] 3:1

Answer: A

9. The mass moment of inertia of a solid sphere of radius 'r' about any axis passing through its centre of mass 'm' is :

- [A] mr^2
- [B] $mr^2/2$
- [C] $mr^2/5$
- [D] $2mr^2/5$

Answer: D

10. The centre of gravity of hemisphere lies at a distance of _____ from its base measured along the vertical radius:

- [A] $3/8r$
- [B] $3r/8$
- [C] $8r/3$
- [D] $8/3r$

Answer: B

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