

## QUIZ NO: 636

### TOPIC: ENGINEERING MECHANICS

DATE: 27/08/2022

1. Centroid of a semi-circular area of diameter  $d$  from its diameter is at a distance of

[A]  $d/3$

[B]  $d/\pi$

[C]  $d/3\pi$

[D]  $2d/3\pi$

Answer: D

2. The number of equilibrium conditions for coplanar non concurrent system

[A] 2

[B] 6

[C] 4

[D] 3

Answer: D

**3. If 'f' is the angle of repose, then coefficient of friction is:**

- [A] Tan f
- [B] Cot f
- [C] Cos f
- [D] Sec f

**Answer: A**

**4. Point class 2 lever from the following**

- [A] Can opener
- [B] Baseball bat
- [C] Plier
- [D] None

**Answer: A**

**5. Break pedal assembly of car falls under which class of levers**

- [A] 1<sup>st</sup> class
- [B] 2<sup>nd</sup> class
- [C] 3<sup>rd</sup> class
- [D] None

**Answer: B**

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**6. For a body moving in a straight-line path, with uniform velocity it will experience**

- [A] Centripetal acceleration
- [B] Linear acceleration
- [C] No acceleration
- [D] Both B and C

**Answer: C**

**7. Two force members experiences**

- [A] Tensile stress
- [B] Compressive stress
- [C] Shear stress
- [D] Either tensile or compressive stress

**Answer: D**

**8. Theorem that deals with the surface area generated on rotating a curve about an axis is:**

- [A] Varignon's theorem
- [B] 1<sup>st</sup> theorem of Pappus - Guldinus
- [C] 2<sup>nd</sup> theorem of Pappus - Guldinus
- [D] Sine rule

**Answer: B**

**9. For a two-force member to be in equilibrium the forces must be:**

- [A] Zero
- [B] Collinear
- [C] Equal and opposite
- [D] Both B and C

**Answer: D**

**10. The angle between two forces when the resultant is maximum and minimum respectively are:**

- [A] 0 and 180
- [B] 180 and 0
- [C] 90 and 180
- [D] 90 and 0

**Answer: A**

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