Quiz

QUIZ NO: 763

TOPIC: STRUCTURAL ANALYSIS

DATE: 19/10/2023

1. **Propped cantilever beam is a**

   [A] Statically indeterminate structure

   [B] Statically determinate structure

   [C] Kinematically determinate structure

   [D] None of these

   Answer: A

2. **Moment distribution is a**

   [A] Displacement method

   [B] Force method

   [C] Energy method

   [D] Virtual work method

   Answer: A

3. **Kani's method is a**

   [A] Equilibrium method

   [B] Force method

   [C] Energy method

   [D] Virtual work method

   Answer: A

4. **Consistent deformation method is a**

   [A] Displacement method

   [B] Force method

   [C] Energy method

   [D] Virtual work method

   Answer: B

5. **Horizontal thrust of a 2 hinged parabolic arch subjected to a central point load**

   [A] $WL/8h$

   [B] $WL^2/12h$

   [C] $WL^2/8h$

   [D] $25WL/8h$

   Answer: D

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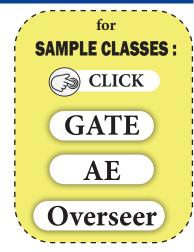|	
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6. **Slope deflection method is**

   [A] Equilibrium method

   [B] Force method

   [C] Energy method

   [D] Virtual work method

   Answer: A

7. **The degree of static indeterminacy of a pin-jointed plane frame is given by**

   [A] (3m + R) – 3j

   [B] (m + R) – 2j

   [C] (m + R) – 3j

   [D] (m + R) + 3j

   Answer: B

8. **The degree of static indeterminacy of a pin-jointed space frame is given by**

   [A] (3m + R) – 3j

   [B] (m + R) – 2j

   [C] (m + R) – 3j

   [D] (m + R) + 3j

   Answer: C

9. Static indeterminacy for a rigid jointed plane frame

[A] (3m + R) – 3j

[B] (m + R) – 2j

[C] (m + R) – 3j

[D] (m + R) + 3j

Answer: A

10. Degree of freedom for pin jointed space frame

[A] 3j – r

[B] 2j – r

[C] 6j – r

[D] 3j + r

Answer: A

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