QUIZ NO: 851

TOPIC: STRUCTURAL ANALYSIS

DATE: 22/08/2024

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

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