

## QUIZ NO: 759

### TOPIC: STRUCTURAL ANALYSIS

**DATE: 19/09/2023**

**1. Moment required to cause unit rotation at near end of a member**

- [A] Stiffness factor
- [B] Rotation factor
- [C] Distribution factor
- [D] Carry over factor

**Answer: A**

**2. Stiffness factor for a member when far end is hinged**

- [A]  $3EI/L$
- [B]  $2EI/L$
- [C]  $4EI/L$
- [D]  $6EI/L$

**Answer: A**

**3. Stiffness factor for a member when far end is free**

- [A] Zero
- [B] One
- [C] One half
- [D] One third

**Answer: A**

**4. Sum of stiffness of all members meeting at a joint**

- [A] Rotation factor
- [B] Rotational stiffness of a joint
- [C] Distribution factor
- [D] Carry over factor

**Answer: B**

**5. Ratio of moment induced at a joint to the moment applied at other joint**

- [A] Stiffness factor
- [B] Rotation factor
- [C] Distribution factor
- [D] Carry over factor

**Answer: D**

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**6. Carry over factor of a member when far end is fixed**

- [A] One – third
- [B] One half
- [C] Zero
- [D] One

**Answer: B**

**7. Carry over factor of a member when one end is hinged**

- [A] One
- [B] One half
- [C] One third
- [D] Zero

**Answer: D**

**8. Sway of a frame occurs due to**

- [A] Symmetrical loading
- [B] Unsymmetrical Loading and supports
- [C] Vertical load
- [D] None of these

**Answer: B**

**9. Relative stiffness of a member when far end is hinged**

[A]  $2I/3L$

[B]  $3I/4L$

[C]  $4I/L$

[D]  $6I/L$

**Answer: B**

**10. Slope deflection method was proposed by**

[A] Prof. Hardy cross

[B] Maxwell

[C] G A Maney

[D] Kani

**Answer: C**

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