



9497498415 | 16 | 17

ANSWER KEY

**QUIZ NO: 797** 

**TOPIC: STRUCTURAL ANALYSIS** 

**DATE: 20/02/2024** 

- 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





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<ol><li>Stiffness factor for a member when far end is f</li></ol>	3.	Stiffness	factor	for a	member	when	far	end	is	fre
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- [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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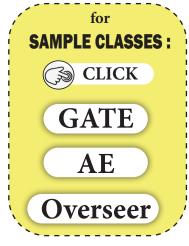


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6. Carry over factor of a member when far end is
--------------------------------------------------

- [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





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#### 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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