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ANSWER KEY

QUIZ NO: 778

TOPIC: STRUCTURAL ANALYSIS

DATE: 28/11/2023

- 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





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2	Stiffness	factor	for a	mamhar	when :	far	and is fre	20
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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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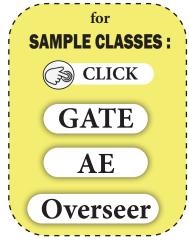


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6. Carry over factor of a member when far end is
--

- [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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