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ANSWER KEY

QUIZ NO: 830

TOPIC: STRUCTURAL ANALYSIS

DATE: 21/05/2024

- 1. The deflection at any point of a perfect frame can be obtained by applying a unit load at the joint in:
 - [A] Vertical direction
 - [B] Horizontal direction
 - [C] Inclined direction
 - [D] The direction in which the deflection is required

Answer: D

- 2. The fixed support in a real beam becomes in the conjugate beam a
 - [A] Roller support
 - [B] Hinged support
 - [C] Fixed support
 - [D] Free end

Answer: D





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ANSWER KEY

3.	. Bending moment at any section in a conjugate beam gives in the actual		
	beam		
	[A] Slope		
	[B] Curvature		
	[C] Deflection		
	[D] Bending moment		
	Answer: C		
4.	The number of independent displacement components at each joint of a		
	rigid-jointed space frame is:		
	[A] 1		
	[B] 2		
	[C] 3		
	[D] 6		
	Answer: D		
5.	Independent displacement components at each joint of a rigid-jointed plane frame are:		
	[A] Three linear movements		
	[B] Two linear movements and one rotation		
	[C] One linear movement and two rotations		
	[D] Three rotations		
	Answer: B		

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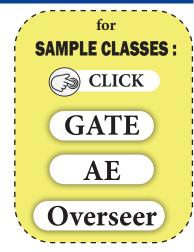
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6.	Castigliano's first theorem is applicable				
	[A] For statically determinate structures				
	[B] When the system behaves elastically				
	[C] Only when principle of superposition is valid				
	[D] None of the above				
	Answer: C				
7	. Number of unknown internal forces in each member of a	rigid jointed			
plane frame is:					
	[A] 1				
	[B] 2				
	[C] 3				
	[D] 6				
	Answer: C				
8.	Degree of freedom for a fixed support:				
	[A] 1				
	[B] 2				
	[C] 0				

[D] 3

Answer: C





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ANSWER KEY

9. Degree of freedom for a hinged support:				
[A] 1				
[B] 2				
[C] 0				
[D] 3				
Answer: A				
10.Maximum numbe structure:	er of degree of freedom for a free end in a	plane		
[A] 1				
[B] 2				

[C] 0

[D] 3

Answer: D









