

## 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**

**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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**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**

**9. Degree of freedom for a hinged support:**

[A] 1

[B] 2

[C] 0

[D] 3

**Answer: A**

**10. Maximum number of degree of freedom for a free end in a plane structure:**

[A] 1

[B] 2

[C] 0

[D] 3

**Answer: D**

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