



9497498415

ANSWER KEY

**QUIZ NO: 784** 

**TOPIC: STRUCTURAL ANALYSIS** 

**DATE: 16/12/2023** 

### 1. Propped cantilever beam is a

- [A] Statically indeterminate structure
- [B] Statically determinate structure
- [C] Kinematically determinate structure
- [D] None of these

**Answer: A** 

#### 2. Moment distribution is a

- [A] Displacement method
- [B] Force method
- [C] Energy method
- [D] Virtual work method

Answer: A





# 9497498415 | 16 | 17

ANSWER KEY

#### 3. Kani's method is a

- [A] Equilibrium method
- [B] Force method
- [C] Energy method
- [D] Virtual work method

Answer: A

#### 4. Consistent deformation method is a

- [A] Displacement method
- [B] Force method
- [C] Energy method
- [D] Virtual work method

**Answer: B** 

# 5. Horizontal thrust of a 2 hinged parabolic arch subjected to a central point load

- [A] WL/8h
- [B] WL<sup>2</sup>/12h
- [C] WL<sup>2</sup>/8h
- [D] 25WL/8h

**Answer: D** 

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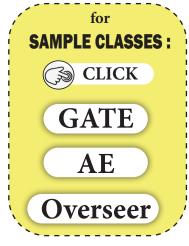


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# 9497498415 | 16 | 17

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- 6. Slope deflection method is
  - [A] Equilibrium method
  - [B] Force method
  - [C] Energy method
  - [D] Virtual work method

**Answer: A** 

7. The degree of static indeterminacy of a pin-jointed plane frame is given

by

$$[A] (3m + R) - 3j$$

[B] 
$$(m + R) - 2j$$

$$[C](m + R) - 3j$$

$$[D] (m + R) + 3j$$

**Answer: B** 

8. The degree of static indeterminacy of a pin-jointed space frame is given by

[A] 
$$(3m + R) - 3j$$

[B] 
$$(m + R) - 2j$$

[C] 
$$(m + R) - 3j$$

$$[D] (m + R) + 3j$$

Answer: C





## 9497498415 | 16 | 17

ANSWER KEY

### 9. Static indeterminacy for a rigid jointed plane frame

$$[A] (3m + R) - 3j$$

[B] 
$$(m + R) - 2j$$

$$[C](m + R) - 3j$$

$$[D](m + R) + 3j$$

**Answer: A** 

### 10.Degree of freedom for pin jointed space frame

[A] 
$$3j - r$$

[B] 
$$2j - r$$

$$[C] 6j - r$$

[D] 
$$3j + r$$

**Answer: A** 

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