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Q : 26) The final deflection due to all loads including the effects of temperature, creep and shrinkage and measured from as-cast level of supports of floors, roofs and all other horizontal members should not exceed _____.

A : $\text{Span}/350$

B : $\text{Span}/300$

C : $\text{Span}/250$

D : $\text{Span} / 200$

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Q : 27) Torsion resisting capacity of a given reinforced concrete section _____

A : Decreases with decrease in stirrup spacing

B : Decreases with increase in longitudinal bars.

C : Does not depend stirrup and longitudinal steels

D : Increases with the increase in stirrups and longitudinal steels.

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Q : 28) The width of the rib of a T-beam is generally kept between:

A : $1/7$ to 1.3 of rib depth

B : 1.3 to 1.2 of rib depth

C : $\frac{1}{2}$ to 3.4 of rib depth

D : $1/3$ to 2.3 of rib depth

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Q : 29) The neutral axis of a T-beam exists _____

A : Within the flange

B : At the bottom edge of the slab

C : Below the slab

D : All options are correct

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Q : 30) By over reinforced beam, the moment of resistance can be increased not more than

A : 10%

B : 15%

C : 20%

D : 25%

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Q : 31) For initial estimate for a beam design, the width is assumed

A : $1/15^{\text{th}}$ of the span

B : $1/20^{\text{th}}$ of the span

C : $1/25^{\text{th}}$ of the span

D : $1/30^{\text{th}}$ of the span

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Q : 32) If the ratio of the span to the overall depth does not exceed 10, the stiffness of the beam will ordinarily be satisfactory in case of a

A : Simply supported beam

B : Continuous beam

C : Cantilever beam

D : None of these

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Q : 33) The effective span of a simply supported beam is _____

A : The clear distance between supports

B : Half of the clear distance plus width of column

C : 0.7 times clear distance between supports

D : Centre to centre distance between supports

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Q : 34) As per IS 456 : 2000, the minimum beam width required for a reinforced concrete beam, for 2 hours of fire exposure is:

A : 300 mm

B : 150 mm

C : 200 mm

D : 250 mm

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Q : 36) The design value of limiting span to effective depth ratio for deflection control of a beam is independent of:

A : Span of the beam

B : Creep and shrinkage

C : Service stress in tension reinforcement

D : Area of compression reinforcement

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Q : 36) The criteria for minimum and maximum area of tension steel requirement in reinforced concrete beams (singly reinforced) as per IS 456 : 2000 is respectively : (Notations : A_s – area of steel, b – breadth of beam, d – effective depth of beam. D – depth of beam, f_y – characteristic yield strength of reinforcement).

$$\text{A : } \frac{A_{s_{min}}}{bd} \geq \frac{0.75}{f_y}, \frac{A_{s_{max}}}{bD} \leq 0.4 \quad \text{B : } \frac{A_{s_{min}}}{bd} \geq \frac{0.8}{f_y}, \frac{A_{s_{max}}}{bD} \leq 0.5$$

$$\text{C : } \frac{A_{s_{min}}}{bd} \geq \frac{0.85}{f_y}, \frac{A_{s_{max}}}{bD} \leq 0.04 \quad \text{D : } \frac{A_{s_{min}}}{bd} \geq \frac{0.78}{f_y}, \frac{A_{s_{max}}}{bD} \leq$$

0.04



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