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Q : 1) The maximum shear stress in concrete of a reinforced cement concrete beam is

A : Shear force / (lever arm × width)

B : Lever arm / (Shear force × width)

C : Width / (lever arm × shear force)

D : None of these

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Q : 2) Pickup the correct statement from the following:

A : The bent up bars at a support resist the negative bending moment

B : The bent up bars at a support resist the shearing force

B : The bending of bars near support is generally 45° degree

C : All options are correct

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Q : 3) The design shear stress in reinforced cement concrete depends on-

- a. Characteristic strength of concrete**
- b. Percentage of longitudinal tensile reinforcement**
- c. Characteristic strength of steel**

A : Only A

B : Only B

C : Only C

D : Both A and B

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Q : 4) The minimum percentage of shear reinforcement in R.C.C. beams is

A : $0.85/f_y$

B : 0.4

C : 4

D : $40S_v/f_y d$

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Q : 5) Diagonal tension in a reinforced concrete beam :

A : Is maximum at neutral axis.

B : Decreases below neutral axis and increases above neutral axis.

C : Increases below neutral axis and decreases above neutral axis

D : Remains constant throughout the depth

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Q : 6) The factored load at the limit state of collapse for DL + LL, DL + WL and DL + LL + WL combinations, according to IS : 456-2000 are respectively

A : 1. DL + 1.2 LL, 1.5 DL + 1.5 WL, 1.5 DL + 1.5 LL + 1.5 WL

B : 1.5 DL + 1.5 LL, (0.9 or 1.5) DL + 1.5 WL 1.2 DL + 1.2 LL + 1.2 WL

C : 1.5 DL + 1.5 LL, 1.2 DL + 1.2 WL, 1.5 DL + 1.5 LL + 1.5 WL

D : (0.9 or 1.5) DL + 1.5 LL, 1.5 DL + 1.5 WL 1.2 DL + 1.2 LL + 1.2 WL

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Q : 7) The shear capacity of an RCC beam without shear reinforcement is

A : $\tau_c bd$

B : $\tau_v bd$

C : $(\tau_v - \tau_c) bd$

D : $\tau_{cmax} bd$

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Q : 8) tension bars in a cantilever beams must be anchored in the support up to

A : L_d

B : $L_d/3$

C : 12ϕ

D : d

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Q : 9) The length of the straight portion of a bar beyond the end of the hook should be at least

A : Twice the diameter

B : Thrice the diameter

C : Four times the diameter

D : Seven times the diameter

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Q : 10) Lap length in compression shall not be less than :

A : Less than 15ϕ

B : Less than 20ϕ

C : Less than 24ϕ

D : Less than 30ϕ

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Q : 11) If a beam fails in bond, then its bond strength can be increased most economically by :

A : Increasing the depth of beam

B : Using thicker bars but more in number

C : Using thicker bars but less in number

D : None of the above

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Q : 12) In limit state method of design, for HYSD bars the values of bond stress shall be

A : Increased by 60%

B : Decreased by 60%

C : Increased by 50%

D : Decreased by 50%

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Q : 13) The bearing stress at bends for limit state method compared to working stress method of design is

A : 1.5 times more

B : 2.5 times more

C : 2.5 times less

D : 1.5 times less

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Q : 14) Pick up the incorrect statement from the following :

Tensile reinforcement bars of a rectangular beam _____

A : Are curtailed if not required to resist the bending moment

B : Are bent up at suitable places to serve as shear reinforcement

C : Are bent down at suitable places to serve as shear reinforcement

D : Are maintained at bottom to provide at least local bond stress

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Q : 15) The designed bond stress of M20 grade concrete is :

A : 1.2 N/mm^2

B : 1.8 N/mm^2

C : 1.0 N/mm^2

D : 1.6 N/mm^2

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Q : 16) For a 30 degree cranked or bend up bar, the inclined length of the crank is equal to:

A : $1.73 d$

B : $d/2$

C : d

D : $2d$

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Q : 17) Development length is inversely proportional to:

A : Shear stress

B : Stress in bar

C : Bending stress

D : Design bond stress

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Q : 18) The total length of bar having hook at both the ends is

A : $L + 9D$

B : $L + 12D$

C : $L + 18D$

D : $L + 24D$

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Q : 19) The clear distance between the lateral restraints for a simply supported or continuous beam to ensure lateral stability should not exceed:

A : $60 b^2$ or $250 b^2/d$ whichever is more

B : $60 b$ or $250 d^2/b$ whichever is less

C : $60 b$ or $25 d^2/b$ whichever more

D : $60 b$ or $250 b^2/d$ whichever is less

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Q : 20) In doubly reinforced sections, total reinforcement percentage of steel should not exceed:

A : 4.0

B : 6.0

C : 8.0

D : 10.0

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Q : 21) Minimum spacing between horizontal parallel reinforcements of different sizes should not be less than

A : One diameter of thinner bar

B : One diameter of thicker bar

C : Sum of the diameter of thinner and thicker bars

D : Twice the diameter of thinner bar

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Q : 22) A simply supported beam is considered as a deep if the ratio of effective span to overall depth is less than :

A : 1

B : 4

C : 3

D : 2

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Q : 23) bending moment co-efficient and shear co-efficient for continuous beams of uniform cross-section as per IS : 456 (table 12 and 13) may be used only when spans do not differ to the longest span by:

A : 15%

B : 20%

C : 10%

D : 12%

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Q : 24) A T-beam behaves as a rectangular beam of a width equals to its flange if its neutral axis :

A : Falls within the flange

B : Falls below the flange

C : Coincides with the geometrical centre of the beam

D : falls below the centroidal axis of the beam

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Q : 25) The thickness of the flange of T-beam of a ribbed slab is assumed as

A : Half the thickness of the rib

B : Thickness of the concrete topping

C : Depth of the rib

D : Width of the rib



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