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Q:) The design shear force at the critical section in a rectangular beam of width 300 mm and effective depth 500 mm is 270 kN. The permissible shear stress in concrete on the basis of % of steel reinforcement is 0.4 N/mm^2. Which of the following statement is correct? Take $\tau_{cmax} = 1.6N/mm^2$

[UPSSSC JE 2016]

A : The shear reinforcement shall be designed for a shear force 30kN.

B : The shear reinforcement shall be designed for a shear force of 210 kN./210 kN

C : The shear reinforcement shall be designed for a shear force of 270 kN

D : The beam section must be redesigned.

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Q:) The minimum area of tension reinforcement (A_s) of steel "P" in a singly reinforced beam of width "b" and effective depth "d" is

[RAJASHTAN JE 2015]

A : $0.85bd/f_y$

B : 0.85 bd

C : 0.5 bd f_y

D : bd/f_y

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Q:) If the area of tensile steel reinforcement is doubled, the moment of resistance of the beam increases only by about:

[BCCL JE 2017]

A : 0.12

B : 0.22

C : 0.32

D : 0.42

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Q:) Size of RCC section depends on____. [BECIL NMRC JE 2019]

A : Codal provisions

B : Grade of concrete

C : Grade of steel and concrete

D : Grade of steel

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Q:) The spacing of stirrups in a beam: [SSC JE 2016]

A : Depends on the size of the beam

B : Decrease near the support

C : Increase near the support

D : Is the same everywhere

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Q:) The spacing of stirrups in a beam: [LMRC (ASST,MANAGER) 2016]

A : Depends on the size of the beam

B : Decrease near the support

C : Increase near the support

D : Is the same everywhere

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Q:) As per IS 456-2000 standard, the average permissible bond stress (τ_{bd}) for bars in M25 grade of concrete is: [SSB HIMACHAL PRADESH 2018]

A : 0.8

B : 0.9

C : 1

D : 1.1

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Q:) In simply supported slab, alternate bars are curtailed at

[DDA 2018]

A : $(1/5)^{th}$ of the span

B : $(1/6)^{th}$ of the span

C : $(1/7)^{th}$ of the span

D : $(1/8)^{th}$ of the span

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Q:) The lap length in compression shall not be less than p times the diameter of the rebar, where p is [SSC JE 2017]

A : 32

B : 24

C : 12

D : 20

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Q:) Torsion resisting capacity of given reinforce concrete section……

[SSC JE 2017]

A : Decrease with decrease in stirrups spacing

B : Decrease with increases in longitudal bars

C : Does not depend upon stirrups and longitudal steels

D : Increase with the increases in stirrups and longitudal steels.

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Q:) If ϕ is the diameter of a bar in tension, a standard hook is equivalent to the anchorage value of straight length given by

[SSC JE CWC & MES 2011 (UPPCL JE 2013)]

A : 8ϕ

B : 12ϕ

C : 16ϕ

D : 24ϕ

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Q:) The following statements (S1,S2,S3) [SSC JE 2019]
S1 These beams are deeper when compared to a balanced beam section
S2 The failure of the beam takes place due to failure of steel
S3 these beams undergo large deflections at failure
Choose the correct statements.

A : S1 and S2

B : S2 and S3

C : S1 and S3

D : S1,S2 and S3

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Q:) As per 456:2000, the minimum beam with required for a reinforced concrete beam, for 2 hours of the fire exposure is: [SSC JE 2019]

A : 250 mm

B : 200 mm

C : 150 mm

D : 300 mm

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Q:) A cantilever beam of size 0230 × 400 mm has a clear span of 2.5 m and is supported on a 400 × 400 mm column. The effective span of the cantilever is [RRB JE CBT -II 2019]

A : 2.7 m

B : 2.9 m

C : 2.615 m

D : 3.3 m

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Q:) The slenderness ration of a beam of square cross-section of 20 cm side and 500 cm long is, [NBCC JE 2018]

A : 76.66

B : 86.66

C : 96.66

D : 66.66

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Q:) For which of the following deformations are RCC deep beams primarily designed? [DDA 2018]

A : Bearing

B : Shear and bending

C : Bending

D : Shear

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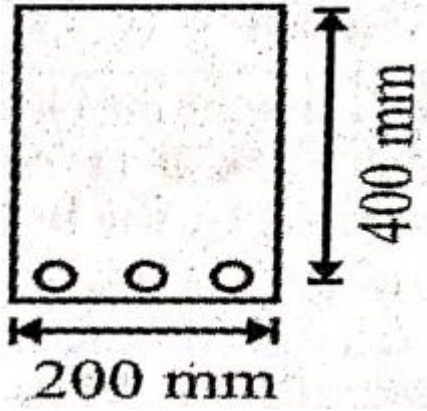
Q:) A simply supported RC beam having clear span of 5 m and support width 300 mm has the cross section as shown in Fig. What is the effective span of beam as per IS-456? [UK COMBINED AE PAPER – 1 2012]



A : 5300 mm

B : 5400 mm

C : 5200 mm

D : 5150 mm

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Q:) The load on a lintel is assumed as uniformly distributed, if the masonry above it, is upto a height of_____. [M.P SUB ENG 2016]

A : The effective span

B : 1.25 time the effective span

C : 1.4 times the effective span

D : 2.4 times the effective span

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Q:) Cover in reinforcement is essential to_____.

[MP DRAUGHTSMAN-B 2016]

A : Not to be seen by others what reinforcement provided

B : To protect form external harmful substances

C : Aesthetic view

D : If not embedded, may bend due to compression.

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Q:) The bearing of a lintel is [JHARKHAND SSC JE 2016]

A : 10 cm

B : 15 cm

C : 20 cm

D : 30 cm

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Q:) In a continuous beam, the moment coefficient of the innermost support for the dead load is: [LMRCL (ASST.MANAGER) 2018]

A : 1/12

B : 1/0

C : 1/9

D : 1/24

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Q:) Steel beam theory is the method used to analyze and in the design of a design of: [DFCCIL CIVIL JE 2018]

A : Doubly reinforced section

B : both singly & doubly reinforced section

C : Singly reinforced sections

D : Column structure only

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