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Q: ) The ratio of average shear stress to maximum shear stress in a prismatic beam of rectangular cross section is:

A :  $3/4$

B :  $4/3$

C :  $3/2$

D :  $2/3$



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Q: ) which one of the following is kern diameter of a circular column of diameter,  $d$ ?

A :  $d/2$

B :  $d/4$

C :  $d/6$

D :  $d/8$



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Q: ) What is the ratio of peak deflection of simply supported beam subjected to uniformly distributed load to corresponding cantilever beam with same parameters?

A :  $1/10$

B :  $1/8$

C :  $1/6$

D :  $1/4$



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Q: ) Consider following for bending stress induced in a beam:

1. Directly proportional to modulus of elasticity
2. Inversely proportional to curvature and
3. Inversely proportional to radius of radius of curvature

Which one of the following is correct answer?

A : 1 only

B : 1 and 2 only

C : 1 and 3 only

D : all



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Q: ) What is the static and kinematic indeterminacies respectively of a two storey two bay frame having fixed support at base?

A : 9 , 15

B : 9 , 12

C : 6 , 15

D : 6 , 12



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Q: ) Creep coefficient at the edge of 7 - days loading is:

A : 2.2

B : 1.6

C : 1.1

D : 0.9



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**EVEREXAM**

Q: ) Maximum allowed deflection in a simply supported RC beam (span, L) under uniformly distributed load including long term elastic and shrinkage effect is:

A :  $L/350$

B :  $L/250$

C :  $L/200$

D :  $L/175$



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Q: ) The maximum strain in tension reinforcement (having yield stress  $f_y$  and elasticity modulus  $E_s$ ) in a flexural member shall not be less than

A:  $\frac{f_y}{1.15E_s}$

B:  $\frac{f_y}{1.5E_s}$

C:  $\frac{f_y}{1.15E_s} + 0.002$

D:  $\frac{f_y}{1.5E_s} - 0.002$

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Q: ) Which shall be maximum allowed anchorage length of U-type hook in a RC compression member?

A : 4 times diameter of the bar

B : 6 times diameter of the bar

C : 8 times diameter of the bar

D : 16 times diameter of the bar



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**EVEREXAM**

Q: ) Which one of the following is most suitable section for steel column section?

A : ISWB

B : ISMB

C : ISHB

D : ISLB



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**EVEREXAM**

Q: ) Design strength in tension of a steel plate subjected to failure by rupture mode is expressed as:

**A :**  $0.9 \left( \frac{A_n f_u}{y_{ml}} \right)$

**B :**  $0.9 \left( \frac{A_n f_u}{y_{mv}} \right)$

**C :**  $1.2 \left( \frac{A_n f_u}{y_{ml}} \right)$

**D :**  $1.5 \left( \frac{A_n f_u}{y_{ml}} \right)$

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Q: ) Area moment of inertia of a circular section of diameter D is:

A :  $\pi D_3/32$

B :  $\pi D_4/32$

C :  $\pi D_3/64$

D :  $\pi D_4/64$



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**EVEREXAM**

Q: ) A cantilever beam of a span  $L$ , is subjected a moment,  $P$  at its free end. The bending moment induced at its support will be:

A :  $P/4$

B :  $P/3$

C :  $P/2$

D :  $P/4$



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Q: ) Radius of gyration of a column section having moment of inertia. I and cross sectional area A is:

A:  $\sqrt{\frac{1}{A}}$

B:  $\sqrt{IA}$

C: I/A

D: IA



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Q: ) A column pinned at both the ends has length L and flexural rigidity EI can carry a critical load of:

A:  $\frac{4\pi^2 EI}{L^2}$

B:  $\frac{2\pi^2 EI}{L^2}$

C:  $\frac{\pi^2 EI}{L^2}$

D:  $\frac{\pi^2 EI}{L^2}$



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Q: ) Static indeterminacy of a beam fixed at both the ends is:

A : 6

B : 3

C : 2

D : 1



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Q: ) The most rel reliable estimate is.

A : Detailed estimate

B : Preliminary estimate

C : Plinth area estimate

D : Cube rate estimate.



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Q: ) Deflection due to bending moment in a regular beam of uniform cross section is proportional to:

A :  $EI$

B :  $\frac{1}{EI}$

C :  $\frac{1}{(EI)^2}$

D :  $(EI)^2$



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Q: ) Deflection of tip of a cantilever beam of span length, L carrying uniformly distributed load, q is:

A:  $\frac{qL^2}{24 EI}$

B:  $\frac{qL^2}{12 EI}$

C:  $\frac{qL^4}{8 EI}$

D:  $\frac{qL^4}{6 EI}$

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Q: ) A Rubber bar of length 1.5m and 200 mm diameter is stretched along its length by 20mm by a force of 15 kN. As a result its diameter is reduced by 2mm. The Poisson's ratio of the bar material will be:

A : 5

B : 1

C : 0.75

D : 0.5



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Q: ) A simply supported beam of span  $L$ , is subjected to two point loads (each of magnitude  $P$ ) at a distance of  $L/3$  from either support, The maximum bending moment in the beam will be

A :  $PL$

B :  $PL/2$

C :  $PL/3$

D :  $PL/4$



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**EVEREXAM**

Q: ) A rectangular beam section has width 120 mm and depth 500mm. The moment of inertia about an axis t mid depth parallel to width will be:

A :  $15 \times 10^{10} \text{ mm}^4$

B :  $12 \times 10^{10} \text{ mm}^4$

C :  $125 \times 10^6 \text{ mm}^4$

D :  $125 \times 10^7 \text{ mm}^4$



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Q: ) A column of length 1.5 m is pinned at both ends has radius of gyration 150mm. The slenderness ratio will be:

A : 150

B : 100

C : 10

D : 5



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Q: ) In a simply subjected beam, maximum shear stress in a triangular cross-section (altitude  $h$ ) occurs at a distance:

A :  $h/3$  from bottom of beam

B :  $h/3$  from top of the beam

C :  $h/6$  from neutral axis

D :  $h/5$  from top the beam



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