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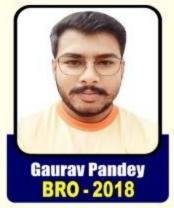
















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Daily Class – 8:00 PM

Q:) The relation between bulk modulus (K) and Young's modulus (E) and Poisson's ratio (1/m) is given by:

A: K = mE/[3(m-2)]

B: K = mE/(3m)

C: K = E/[3(m-2)]

D: K = mE/3



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Daily Class – 8:00 PM

Q:) Shear stress is _____ stress.

A: Bending

B: Tangential

C: Normal

D: Proof

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Daily Class – 8:00 PM

Q:) Shear modulus of elasticity is the ratio of

A: Shearing stress and shearing strain

B: Compressive stress and strain

C: Bending stress and strain

D: Tensile stress and strain



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Daily Class - 8:00 PM

Q:) For a material having modulus of elasticity E and modulus of rigidity N, it seen that E = 2N. The bulk modulus K of the material is:

A:
$$2\frac{E}{3}$$

$$\mathsf{B} \colon \frac{E}{2}$$

C:
$$\frac{E}{4}$$

D: 2
$$\frac{E}{3}$$



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Daily Class - 8:00 PM

Q:) A simply supported beam carries a varying load from supported beam carries a varying load from zero to one end and 'w' at the other end. If the length of the beam is 'a', the maximum bending moment will be:

A:
$$\frac{wa}{27}$$

B:
$$\frac{wa^2}{27}$$

C:
$$\frac{w^2a}{\sqrt{27}}$$

$$\mathsf{D:}\,\frac{wa^2}{9\sqrt{3}}$$

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Daily Class – 8:00 PM

- Q:) For a cantilever beam of a length L subjected to a moment M at its free end, the shape of shear force diagram is:
- A: Rectangular with a constant value of (M/L)
- **B:** Parabolic
- C: No shear force at any part of beam
- D: Linearly varying with zero at free end and maximum at the support



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Daily Class – 8:00 PM

Q:) What is the slope at the end of simply supported beam of span 2 m and load 5 kg/unit length over the entire span?

A: 1/16 El

B: 5/3 EI

C: 1/3 EI

D: 1/20 EI



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Daily Class - 8:00 PM

Q:) A cantilever beam of length L meters is subjected to uniformly varying load, varying from 0 kN/m at free end to W kN/m at fixed end. The deflection at the free end is _____ (take E as modulus of elasticity of material used and I as moment of inertia of the section).

$$A: \frac{WL^3}{60 EI}$$

$$\mathsf{B}:\frac{WL^5}{385EI}$$

$$C: \frac{WL4}{30 EI}$$

$$\mathsf{D:}\,\frac{WL^4}{45\,EI}$$



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Daily Class – 8:00 PM

Q:) Shear strain energy theory for the failure of a material at elastic limit is due to

A: Rankine

B: Guest or tresca

C: St. Venant

D: Von mises



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Daily Class – 8:00 PM

- Q:) Which of the following is an assumption made in the theory of simple bending?
- A: The material of the beam is not homogenous
- B: The value of young's modulus varies in tension and compression.
- C: Beam material within elastic limit does not obey Hooke's law
- D: The beam is in equilibrium



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Daily Class – 8:00 PM

Q:) A circular shaft of diameter d and length L is subjected to a torque T and a bending moment M. The ratio of maximum shear stress to bending stress is:

$$A: \frac{T}{M}$$

$$\mathsf{B}: \frac{T}{4M}$$

C:
$$\frac{T}{2M}$$

$$D: \frac{2T}{M}$$

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Daily Class – 8:00 PM

Q:) The ratio of maximum shear stress to average shear stress of a circular beam is:

(a)
$$\frac{2}{3}$$

(b)
$$\frac{3}{2}$$

(c)
$$\frac{3}{4}$$

(d)
$$\frac{4}{3}$$

A: A only

B: B only

C: C only

D: D only



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Daily Class - 8:00 PM

Q:) For a beam with rectangular cross section, at the neutral axis, the shear stress axis is always:

A: Maximum

B: Zero

C: Minimum

D: Infinity



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Daily Class – 8:00 PM

Q:) Which type of buckling of axially loaded compression steel member occurs when the torsional rigidity of the member is appreciably smaller than its bending rigidity?

A: Shear buckling

B: Flexural-shear buckling

C: Torsional buckling

D: Flexural buckling



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Daily Class – 8:00 PM

Q:) The core of a circular section short column of diameter d is a concentric circular area having a diameter _____.

A: d/4

B: d/3

C: d/2

D: d/8



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Daily Class – 8:00 PM

- Q:) Four columns are identical in all parameters except and conditions. Arrange them in their ascending order of load carrying capacity.
- (i) Both ends are hinged
- (ii) Both ends are fixed
- (iii) One end is fixed and the other end is free
- (iv) One end is fixed and the other end is hinged
- A: I, ii, iii, iv B: ii, iv, I, iii
- C: iii, I, iv, ii D: I, iv, iii, ii



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Daily Class - 8:00 PM

Q:) A pipe of internal diameter 'd' and thickness of wall 't', carries fluid with intensity of pressure 'p'. Hoop stresses in the wall will be:

A:
$$\frac{pd}{t}$$
B: $\frac{pd}{4t}$
C: $\frac{pd}{2}$



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Daily Class – 8:00 PM

- Q:) The following statements (S1, S2, S3) pertain to an under reinforced beam of concrete, Choose the correct statements.
- 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.

A: S1 and S3 B: S1 and S2

C: S2 and S3 D: S1, S2 and S3



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Daily Class – 8:00 PM

Q:) For thin slabs and walls, the maximum size of coarse aggregate should be limited to _____ the thickness of the concrete section.

A: One-fourth

B: Two-third

C: One-third

D: One-third



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Daily Class - 8:00 PM

Q:) 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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Daily Class - 8:00 PM

Q:) According to IS 456: 2000, the percentage increase in the design bond stress in limit state, for deformed bars in tension (conforming to IS 1786), with respect to plain bars in tension is:

A: 50

B: 20

C: 35

D: 60

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Daily Class - 8:00 PM

Q:) A beam curved in plan is designed for

- A: Bending moment and shear
- B: Bending moment and torsion
- C: Shear and torsion
- D: Bending moment, shear and torsion



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Daily Class - 8:00 PM

Q:) The minimum tension reinforcement (Fe500) in the beam of size 450 mm × 600 mm (effective depth = 550 mm) is:

A: 520 mm²

B: 420 mm²

C: 580 mm²

D: 500 mm²



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Daily Class – 8:00 PM

- Q:) Identify the INCORRECT statement about pitch of the lateral ties in the RCC column.
- A: Pitch must be less than or equal to 300 mm.
- B: Pitch must be less than 24 times the diameter of the lateral dimension of the lateral ties.
- C: Pitch must be less than lateral dimension of column.
- D: Pitch must be less than 16 times of smallest diameter of longitudinal bar in column.



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Daily Class – 8:00 PM

Q:) For a structural element in steel structure, which of the following is a limit state of strength?

A: Deflection

B: Fire

C: Durability

D: Torsion

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Daily Class – 8:00 PM

Q:) Wind load analysis can be done by using:

A: IS 875 – part 1

B: IS 875 – part 3

C: IS 875 – part 2

D: IS 875 – part 5

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Daily Class - 8:00 PM

- Q:) Lug angle is
- A: Used with single angle member
- B: Not used with double angle member
- C: Used with channel member
- D: All option are correct



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Daily Class - 8:00 PM

Q:) Which of the following is a fillet

weld?

A: Single bevel

B: Mitre

C: Square

D: Single J



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Daily Class – 8:00 PM

Q:) The minimum spacing for M20 bolts, of grade 4.6, according to IS800, is:

A: 37.4 mm

B: 55 mm

C: 50 mm

D: 33 mm



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Daily Class – 8:00 PM

Q:) A tension member, if subjected to possible reversal of stress due to wind, the slenderness ratio of the member should not exceed

A: 180

B: 200

C: 250

D: 350



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Daily Class – 8:00 PM

Q:) According to IS 800: 2007, what is the maximum permissible effective slenderness ratio for a tension member in which the reversal of direct stress occurs due to the loads other than the wind or seismic forces?

A: 350

B: 250

C: 300

D: 180



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Daily Class – 8:00 PM

Q:) Effective length of battened columns is increased by

A: 5%

B: 10%

C: 15%

D: 20%



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Daily Class – 8:00 PM

Q:) In double lacing, the thickness 't' of flat lacing is A: t is less than 1/40th length between inner end rivets B: t is less than 1.50 length between inner end rivets C: t is less than 1/60th length between inner end rivets D: t is less than 1/70th length between inner end rivets



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Daily Class – 8:00 PM

Q:) What is the effective length of a compression member having actual length L, when effectively held in position at both ends and restrained against rotation at one ends?

A: 1.00 L

B: 0.65 L

C: 1.50 L

D: 0.80 L

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- Q:) Which of the following is true?
- A: A semi compact section can only be used as a compression member.
- B: A slender section shall not be used as a compression member.
- C: A compact or a plastic section can only be used as a compression member.
- D: A section better than a plastic section can only be used as a compression member.



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Daily Class – 8:00 PM

Q:) In case of a simply supported rectangular beam of span L and loaded with a central load W, the length of elasto-plastic zone of the plastic hinge is

- A: $\frac{L}{2}$
- $\mathbf{B} \colon \frac{L}{3}$
- C: $\frac{L}{4}$
- $D: \frac{L}{5}$



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Daily Class – 8:00 PM

Q:) For a fixed-end beam of length L and central point load of W, what will be the value of W at collapse?

(Note: Plastic moment capacity of beam = M_p)

 $A: 6 M_P/L$

 $B: 10 M_p/L$

 $C: 9 M_P/L$

 $D: 8 M_P/L$

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Daily Class - 8:00 PM

Q:) Which of the following pairs is correctly matched with respect to type of stone, based on its formation?

A: Sandstone : Igneous rock

B: Granite: Argillaceous rock

C: Limestone : Sedimentary rock

D: Basalt: Metamorphic rock

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Daily Class – 8:00 PM

Q:) Limestone is a type of:

A: Plutonic rock

B: Igneous rock

C: Sedimentary rock

D: Metamorphic rock

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Daily Class – 8:00 PM

Q:) What is the standard size of wood specimen for testing durability?

A: $500 \times 50 \times 50 \text{ mm}$

B: $600 \times 50 \times 50 \text{ mm}$

C: $400 \times 40 \times 450 \text{ mm}$

D: $600 \times 60 \times 60 \text{ mm}$



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Daily Class - 8:00 PM

Q:) According to IS 1077-1992, the average compressive strength of burnt clay bricks with class designation 15 is:

A: 15 N/mm²

B: 15 kN/mm²

C: 15 kN/mm²

D: 15 N/m²

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- Q:) Which of the following statement is true?
- (a) Mud plastering does not require curing
- (b) Mud plastering requires curing
- (C) It depends on the situation
- A: Only A
- B: Only B
- C: Only C
- D: None of these



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Daily Class – 8:00 PM

Q:) A very small amount of _____ is useful is making sound cement. If it is in excess, it causes the cement to become unsound.

A: Silica

B: Sulphur

C: Iron oxide

D: Alkali



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Daily Class - 8:00 PM

Q:) For concreting tunnel linings, transportation of concrete is done by which of the following?

A: Pans

B: Wheel borrow

C: Containers

D: Pumps



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Daily Class – 8:00 PM

Q:) The percentage of fly ash used in high volume fly ash concrete is:

A: Greater than 90%

B: 10-25%

C: 70-80%

D: 50-60%

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- Q:) Membrane curing is done by:
- A: Applying paraffin or resin-based liquids on the surface of the concrete
- B: Applying stream on the surface of the concrete
- C: Ponding of water on the surface of the concrete
- D: Applying spray of water on the surface of the concrete

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Q:) The 'no fines concrete' is used for:

- A: Higher workability
- B: Higher strength
- C: Higher durability
- D: Higher permeability



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- Q:) Given below are the statements (S1 and S2) associated with fresh concrete.
- S1: As the compaction factor of concrete sample increases, its slump value also increases.
- S2: Slump cone test helps in qualitatively understanding the strength of concrete
- Identify the correct inference (S).
- A: S1 is false and S2 is true
- B: Both S1 and S2 are true
- C: S1 is true and S2 is false
- D: Both S1 and S2 are false



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Q:) The difference in 7 days compressive strength of cubes or cylinders prepared with impure and pure waters should not differ by more than:

A: 10%

B: 5%

C: 12%

D: 2%



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Q:) Chowkhat or frame of the door is measured in

A: Cubic meter

B: Meter

C: Quintal

D: Square meter



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Daily Class – 8:00 PM

Q:) The book value of a property in a particular year is the:

A: Value at the end of utility period

B: Original cost minus the amount of depreciation till date

C: Mark value

D: Original cost minus the amount of depreciation up to the previous year

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Q:) In the construction industry, contractor's profit is included in_____

A: Work changed establishments

B: Specifications

C: Contingencies

D: Unit rate of items



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