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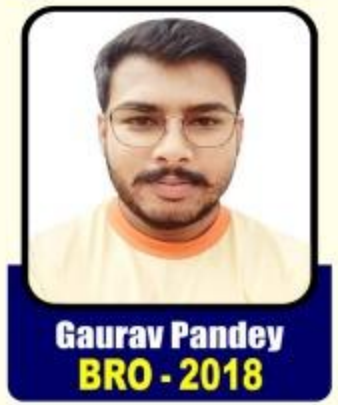

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Steel beam theory is used to find the approximate value of the moment of resistance of a doubly reinforced **beam** specially when the area of compression **steel** is equal to or more than the area of the tensile **steel**.

Q :) Steel beam theory is the method used to analysze and in the design of a design of:

A: Column structures only

B: Doubly reinforced sections

C: Singly reinforced sections

D: Both singly & Doubly reinforced section

IS 2116: Sand for masonry mortars – Specification

IS 269 FOR Ordinay Portland cement specification

Q :) The guidelines for pre-stressed concrete is given by which of the following bureau of Indian standard codes:

A: IS 2116-1980

B: IS 269-2015

C: IS 1343-1980

D: IS 456-2000

Q :) The analysis of pre-stressed concrete members is based on which of the following concepts?

A: Shear stresses

B: Principle stresses

C: Combined stresses due to direct load and bending stresses

D: Overhead stresses

Q :) Which of the following coagulation is most commonly used in sedimentation process in water treatment plant?

A: Albuminoidal nitrogen

B: Aluminum sulphate

C: Nitric sulphate

D: Potassium sulphate

Cover to Reinforcement (IS 456 – 2000)

Exposure Condition	Min Nominal cover (mm)
Mild	20
Moderate	30
Severe	45
Very Severe	50
Extreme	75

Q :) According IS 456-2000, the nominal cover provided for the concrete surfaces exposed to very severe environmental conditions shall NOT be less than:

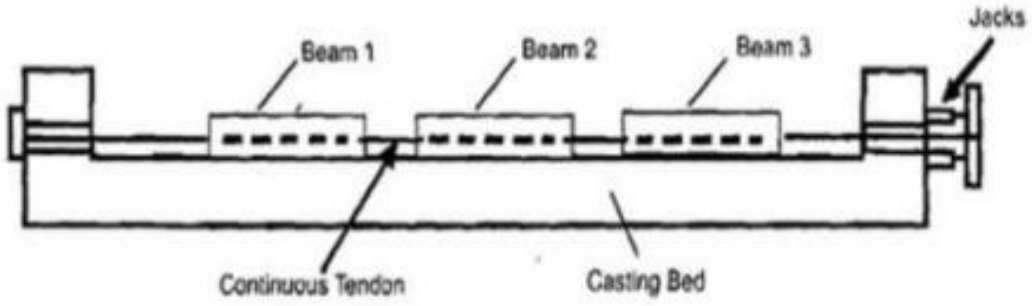
A: 50 mm

B: 30 mm

C: 75 mm

D: 45 mm

- After the concrete has hardened, the wires are released from bulkheads and are cut off.
- The prestress is transferred through the bond between tendons and concrete.
- Uneconomical for larger spans.



Hoyer's Long Line System of Pre-tensioning

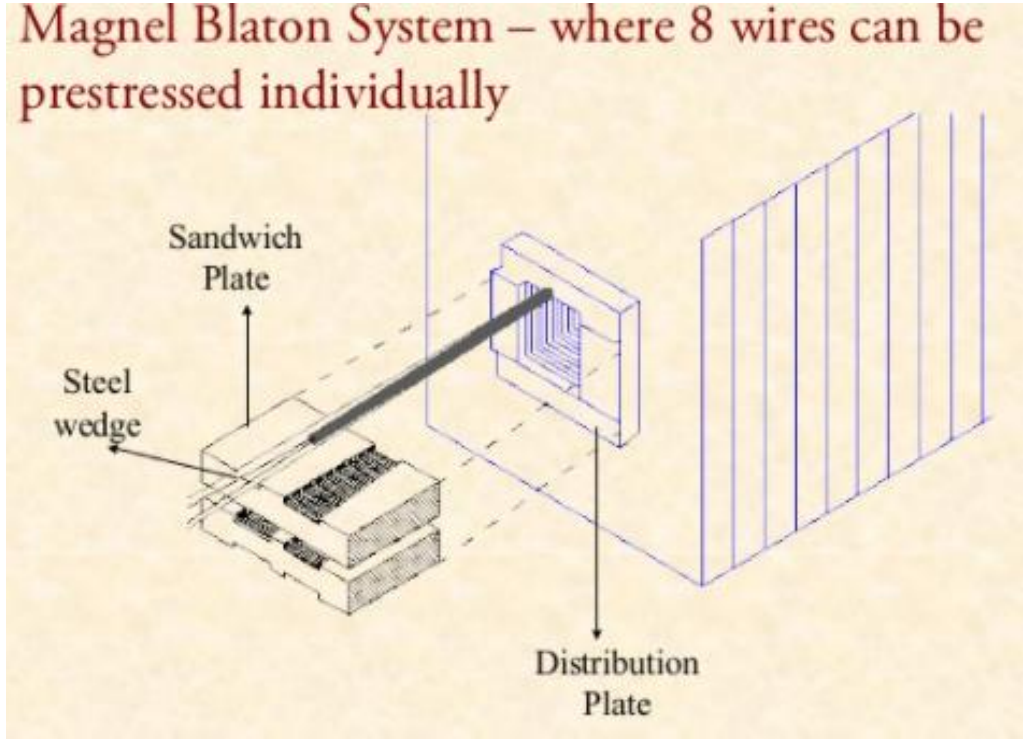
Q :) Which of the following systems is used for pre-tensioning?

A: Freyssinet system

B: Magnel-Blaton system

C: Gifford-udall system

D: Hoyer's long line system



Q :) Which of the following post tensioning adopts metallic sandwich plates, flat wedges and distribution plate for anchoring the wires?

A: Magnel-balton

B: Freyssinet (high tension wire about 18 in no. form a group cable)

C: Lee-McCall (high st. nuts)

D: Gifford-udall (wire stressed and anchored one by one)

Q :) The upward deflection of a pre-stressed beam with a straight tendon at a uniform eccentricity below the centroidal axis is given by….., Where P-effective pre-stressing force, e-eccentricity, L-length of the beam, E-modulus of elasticity, I-moment of inertia:

A: $-PeL^2/8EI$

B: $-PeL^2/14EI$

C: $-PeL^2/4EI$

D: $-PeL^2/16EI$

Q :) As per IS 1343-1980, the minimum 28 day compressive strength for pre-tensioned members is:

A: 40 N/mm^2

B: 50 N/mm^2

C: 25 N/mm^2

D: 30 N/mm^2

Q :) Which of the following is a disadvantage in the case of freyssinet system of post tensioning?

A: Safeguarding of wires is economical

B: Rapid attainment of stretching force

C: Stresses in the wires are not similar

D: Projection of plug left in concrete

Q :) A concrete beam is pre-stressed by a cable carrying an initial pre-stressing force of 300 kN, area is 300 mm^2. What is the percentage of loss of stress due to shrinkage in pre-tension members?

A: 6.3%

B: 4%

C: 2.3%

D: 5.3%

Q :) As per IS 10500:1991, what is the permissible limit in the absence of alternate sources for the total hardness of drinking water?

A: 600 mg/l

B: 500 mg/l

C: 800 mg/l

D: 300 mg/l

4	TDS (mg/l)	500	2000
5	Hardness (as CaCO3) (mg/l)	200	600
6	Alkalinity (as CaCO3) (mg/l)	200	600
7	Nitrate (mg/l)	45	No relaxation
8	Sulfate (mg/l)	200	400
9	Fluoride (mg/l)	1	1.5

Q :) The maximum spacing of shear reinforcement along the axis of the member shall NOT exceed _____ times the effective depth of the section for vertical strips

A: 1.20

B: 0.75

C: 0.65

D: 0.50

Q :) The minimum reinforcement used in either direction of the slabs shall NOT be _____ of the total cross sectional area for Fe 250 grade steel.

A: < 0.2%

B: < 0.1%

C: < 0.25%

D: < 0.15%

Q :) In limit state design, the values of consideration of factor of safety for concrete and steel, respectively in limit state design are:

A: 2.00 and 1.70

B: 1.50 and 1.15

C: 1.50 and 1.50

D: 1.50 and 1.17

Q :) Which of the statements is correct in the case of slow sand filters?

A: They are relatively simple to operate

B: They require low turbidity water

C: They have a large land requirement

D: They are labour intensive

Q :) The population forecasting method which that is based on the assumption that the percentage increase in population from one decade to the other decade remains constant is called _____ method.

A: Incremental increase

B: Geometrical increase

C: Decrease rate of growth

D: Arithmetical increase

Q :) The pipes which that are frequently used in green building projects for water supply are called _____ pipes.

A: Chlorinated polyvinyl chloride

B: Polybutylene

C: Polyethylene

D: Polypropylene

Q :) In a simple stress-strain test, the volumetric strain is equal to ____ strain.

A: Three times the shear

B: Two times the shear

C: Two times the linear

D: Three times the linear

: Maximum stress in sudden loading = 2P/A

Maximum stress in gradual loading = P/A.

Q :) The strain energy stored in a body with sudden load application, the maximum stress induced is twice the stress induced when:

A: The torque of same load is applied

B: The same load is applied gradually

C: The same load is applied suddenly

D: The same load is applied by an impact

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