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

A : 75 mm

B : 45 mm

C : 50 mm

D : 30 mm

Q:) As per IS 456 : 2000, in normal circumstances, where ambient temperature does not fall below 15° C and where OPC is used and normal curing is done, the stripping time (in days) of porps to slabs spanning up to 4.5 m may be taken as:

A : 3

B : 7

C : 14

D : 21

Q:) The minimum cement content (kg/cum) for a ship dock (underwater construction) with 40 mm aggregate is prescribed by the India standard as:

A : 300

B : 250

C : 400

D : 350

Q:) For concrete of grade M50, the value of flexural tensile strength will be nearly

A : 5 N/mm^2

B : 10 N/mm^2

C : 25 N/mm^o

D : 50 N/mm^o

Q:) If the standard deviation of 40 concrete cube samples is 3 MPa and the average is 30 MPa, then the co-efficient of variation (%) for this data set will be:

A : 10

B : 1000

C : 1333

D : 4

Q:) What is the thickness of plastering provided for underside of R.C.C. work?

A : 6 mm

B : 12 mm

C : 20 mm

D : 3 mm

Q:) When yield stress is well defined, the factor is safety is defined as the.....

A : None of the above

B : Ratio of the ultimate stress to yield stress

C : Ratio of the initial stress to final stress

D : Ratio of the yield stress to maximum expected stress.

Q:) As per IS 456 : 2000 the assumed standard deviation for M25 grade concrete is:

A : 4 N/mm^2

B : 2.5 N/mm^2

C : 5 N/mm^2

D : 5.5 N/mm^2

Q:) For M20 Grade of concrete, modular ratio would be:

A : 13.23

B : 15.24

C : 12.89

D : 11.56

Q:) Empirical relationship between tensile strength and compressive strength of concrete is given by:

A : Tensile strength = $0.47 \times f_{ck}$

B : $f_{ck} = 0.47\times$ strength

C : Tensile strength = k

D : K = compressive strength/tensile strength $\times f_{ck}$

Q:) Give the full form of RBLC.

A : Reinforced brick lime concrete

B : Reinforced brick lime cement

C : Reinforced brick light concrete

D : Reinforced brick light cement

Q:) Consider the following statement regarding characteristic strength of concrete:
"The test result of the sample shall be the average of the strength of x specimens. the individual variation should not be more than ± Y% of the average."
What shall be the value of X and Y?

A : 5, 15 respectively

B : 5, 5 respectively

C : 3,5 respectively

D : 3, 15 respectively

Q:) A beam of 250 mm width is reinforced with Fe415. Grade of the concrete is M25. The ultimate moment acting at the section is 138 kN-m. What must be the minimum effective depth such that it is safe in limit state of flexure?

A : 650 mm

B : 500 mm

C : 400 mm

D : 360 mm

Q:) What is the very first crack that occurs in any RCC member, especially if construction during summer

A : Flexural crack

B : Settlement crack

C : Corrosion spelling crack

D : Shrinkage crack

Q:) As per I.S. 456-2000, the maximum area of tension reinforcement in a beam shall not exceed-
Where b = breadth of beam
D = overall depth of beam

A : 0.06bD

B : 0.04bD

C : 0.012b

D : 0.08sbD

Q:) The width and effective depth of a reinforced concrete beam are 300 mm and 500 mm respectively. The stresses induced in concrete and steel due to applied loads are 4 N/mm^2 respectively. the material used is M-15 grade concrete and mild steel. What will be the depth of neutral axis?

Take m = 19

A : 142.5 mm

B : 202 mm

C : 168 mm

D : insufficient data