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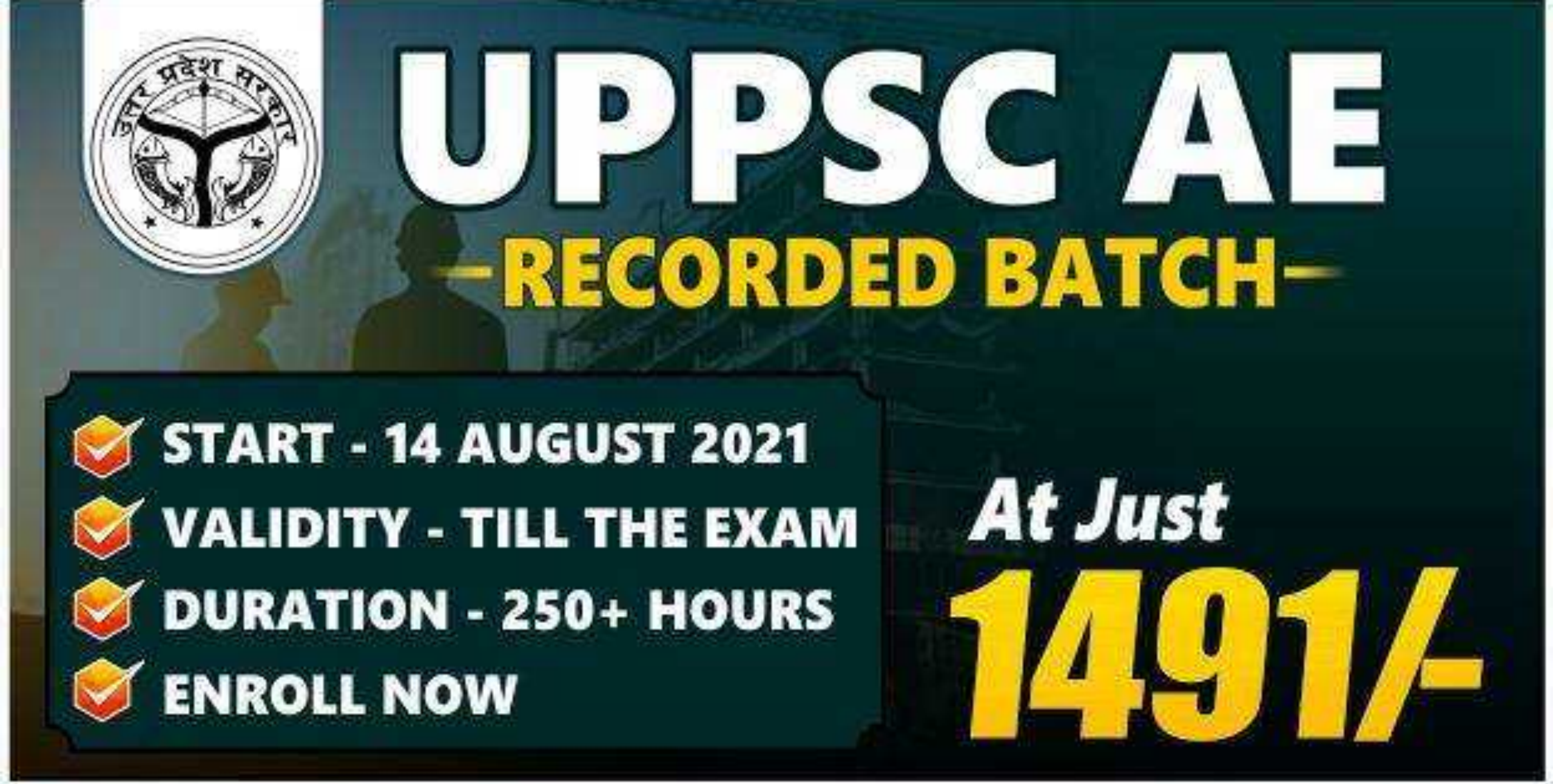
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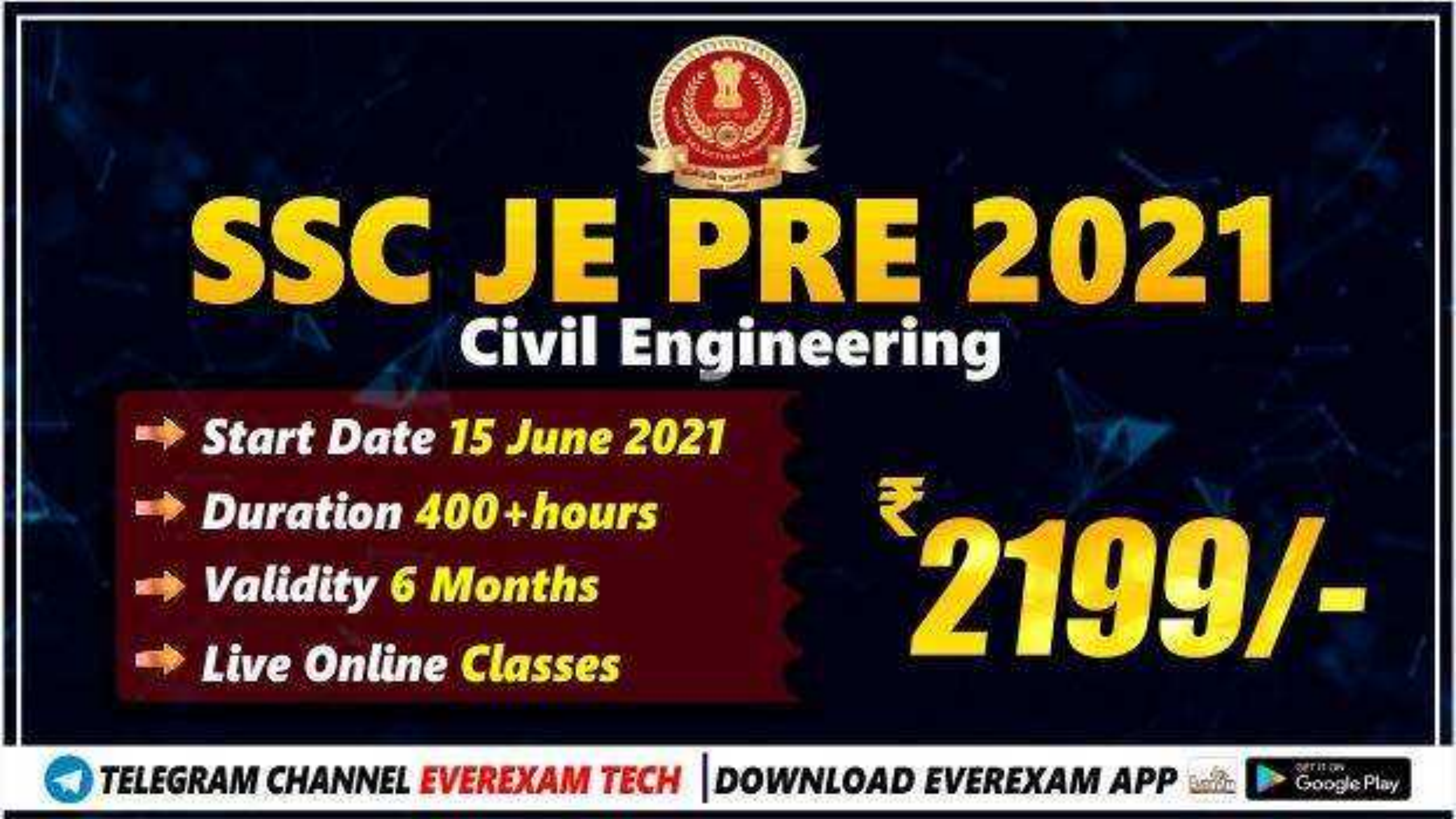
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Q : 1) The striping time for the reinforced concrete slab spanning less than 4.5 m and using fly ash as an admixture should be-

A : 7 days

B : 10 days

C : 14 days

D : 21 days

Q : 2) The effect of air entrainment in concrete is to

1. Increase resistance to freezing and thawing

2. Improve workability

3. Decrease strength

Which of these statements is/are correct?

A : 1 Alone

B : 1 and 3

C : 2 and 3

D : 1, 2 and 3

Q : 3) Maximum area of compression reinforcement for beams is

A : 0.04 bD

B : 0.85 bd/fly

C : 0.1 percent of web area

D : 0.5 percent of web area

Q : 4) According to IS 456 : 2000, the characteristic strength of concrete is defined as the strength of material below which not more than x percent of the test results are expected to fall. The value of x is:

A : 0.75

B : 0.05

C : 10.00

D : 7.50

E : 5.0

Q : 5) As per IS 456, the weighing or batching accuracy (±) of cement, aggregate, water and admixture shall respectively be

A : 2, 2, 2, 2

B : 2, 3, 3, 3

C : 2, 2, 3, 3

D : 3, 2, 2, 2

Q : 6) Concrete exposed to severe freezing-thawing condition shall be classified as exposed to:

A : Moderate

B :Extreme

C : Severe

D : Very severe

Q : 7) If the permissible compressive and tensile stresses in a singly reinforced beam are 20 MPa and 250 MPa respectively, and if the neutral axis depth is limited to 0.3 times the effective depth of the steel required for an economic section is

A : 0.56%

B : 0.76%

C : 0.86%

D : 0.96%

Q : 8) The cover of longitudinal reinforcing bar in a beam subjected to sea spray should not be less than which one of the following?

A : 25 mm

B : 40 mm

C : 70 mm

D : 90 mm

Q : 9) AS per IS 456 : 2000, side face reinforcement shall be provided along the two faces of a reinforced concrete beam, when the depth of the web exceeds:

A : 500 mm

B : 750 mm

C : 250 mm

D : 400 mm

Q : 10) AS per IS 456-2000, When HYSD bars are used, the minimum reinforcement in either direction of slabs is :

A : 0.35% of the total cross sectional area

B : 0.12% of the total cross sectional area

C : 0.80% of the total cross sectional area

D : 0.25% of the total cross sectional area

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Daily Class – 8:00 PM

Q : 11) The additional cover thickness to be provided in reinforced concrete member that are total immersed in sea water is:

A : 25 mm

B : 30 mm

C : 35 mm

D : 40 mm

Q : 12) Which of the following is not a non-destructive test used for concrete?

A : Rebound hammer

B : Pull-out

C : Ultra-sonic

D : Direct tensile test

Q : 13) The size of the aggregate accepted as suitable for R.C.C. construction work is about:-

A : 5 mm to 20 mm

B : 3 mm to 5 mm

C : 1 mm to 3 mm

D : 0.5 mm to 1.0 mm

Q : 14) The recommended slump for pumped concrete is:

A : 1-2 inches

B : 2-4 inches

C : 3-4 inches

D : 4-6 inches

Q : 15) A beam shall be deemed to be a deep beam when the ratio of effective span to overall depth is less than for a continuous beam:

A : 2.5

B : 3

C : 3.5

D : 4

Q : 16) The yield strength of HYSD and CTD bars:

A : 250 MPa

B : 415 MPa

C : 450 MPa

D : 500 MPa

Q : 17) The height to diameter ratio of cylindrical specimen for uniaxial compression test of concrete is:

A : 0.50

B : 0.30

C : 0.25

D : 2.00

Q : 18) The creep strain of cement attains its terminal value by

A : 1 year

B : 2 years

C : 5 years

D : 6 months

Q : 19) Given below are the statements associated with concrete.

Statement 1 : As the compaction factor increases slump increases.

Statement 2: Slump test helps in qualitatively understanding the strength of concrete.

A : Statement 1 and statement 2 are false

B : Statement 1 is true and statement 2 is false

C : Statement 1 is false and statement 2 is true

D : Statment 1 and statement 2 are true

Q : 20) Approximate value of shrinkage strain in concrete is:

A : 0.003

B : 0.0003

C : 0.00003

D : 0.03

Q : 21) Maximum carbon content in high strength deform bars should not be more than

A : 0.60%

B : 0.06%

C : 0.30%

D : 0.03%

Q : 22) The development length of each bar of three bars bundled together is increased by:

A : 0.1

B : 0.2

C : 0.33

D : 0.5

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Q : 23) If the factor of safety is applied to a load, then it is called as

A : Safe load

B : Margin of safety

C : Safety factor

D : Load factor

Q : 24) In 4th amendment if IS 456-2000, M60 grade has been shifted

A : To standard concrete from high strength concrete

B : To high strength concrete from high standard concrete

C : To standard concrete from an ordinary concrete

D : Too ordinary concrete from a standard concrete

Q : 25) Consider the following statements of concrete:-

1. Cube strength
2. Cylinder strength
3. Split tensile strength
4. Modulus of rupture

The correct sequence in increasing order of these strength is:-

A : 3-4-1-2

B : 4-3-1-2

C : 3-4-2-1

D : 4-3-2-1

Q : 26) For RC braced frames maximum redistribution of moment allowed is

A : 30%

B : 40%

C : 20%

D : 10%

Q : 27) 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 : 28) Loss of stress due to elastic deformation of concrete depends upon:

A : Relaxation of steel

B : Modular ratio

C : Friction and anchorage slip

D : Shrinkage strain

Q : 29) The horizontal distance between two parallel main bars shall not be less than the following:

A : Diameter of bars if bars are of same diameter

B : Diameter of larger bar if diameters are unequal

C : 5 mm more than nominal maximum size of coarse aggregate

D : All the above

Q : 30) Steel is used as reinforcement instead of other metals in reinforced concrete because

A : Concrete and steel have the same modulus of elasticity

B : Steel is cheaper compared to other metals

C : Concrete and steel have the same coefficient of linear thermal expansion

D : Steel is readily available in large quantity

Q : 31) The sulphate content as SO4 in water to be used for concreting should not exceed

A : 1000 mg/L

B : 750 mg/L

C : 500 mg/L

D : 1250 mg/L

Q : 32) The degree of workability of concrete for heavily reinforced sections of slab should be

A : Very high

B : High

C : Low

D : Medium

Q : 33) The individual variation between test strength of sample should not be more than

A : ±5% of average

B : ±10% of average

C : ±15% of average

D : ±20% of average

Q : 34) As per IS 456 : 2000 the limit of suspended matter in water to be used for construction is

A : 200 mg/l

B : 300 mg/l

C : 2000mg/l

D : 3000mg/l

Q : 35) AS per IS 456-2000, the permissible limit for sulphates in water to be used for making concrete is:

A : 10 mg/lit

B : 200 mg/lit

C : 400 mg/lit

D : 500 mg/lit

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Daily Class – 8:00 PM

Q : 36) What is the nominal cover to rebar in reinforced cement concrete exposed to very severe conditions?

A : 75 mm

B : 40 mm

C : 60 mm

D : 50 mm

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Daily Class – 8:00 PM

Q : 37) Shear failure at sections of simply supported beams and cantilever beam without shear reinforcement will normally occur on plane inclined at an angle

A : 30 degree to the horizontal

B : 30 degree to the vertical

C : 45 degree to the horizontal

D : 25 degree to the vertical

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Daily Class – 8:00 PM

Q : 38) Lap splices shall not be used without additional precautions beyond bar diameter of

A : 28 mm

B : 30 mm

C : 32 mm

D : 36 mm

E : 40 mm

Q : 39) In a rectangular beam of section b × d, subjected to ultimate torsional moment Tu, equivalent ultimate shear can be given as

A : $V_u + 1.6 \frac{T_u}{b}$

B : $V_u + 1.6 \frac{T_u}{b}$

C : $V_u + 2 \frac{T_u}{b}$

D : $V_u + \frac{T_u}{b}$

Q : 40) The maximum permissible shear stress given in IS : 456-1978 is based on:

A : Diagonal tension failure

B : Diagonal compression failure

C : Flexural tension failure

D : Uniaxial compression

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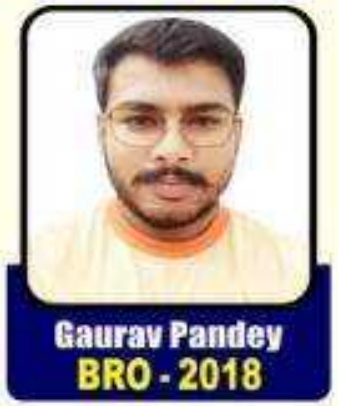

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