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RCC-1 | SSC JE PYQ | BY AVNISH SIR | EVEREXAM

Q : 1) According to IS 456 : 2000, the maximum strain in concrete at the outermost compression fibre is taken as :

A : 0.0035 in bending

B : 0.035 in shear

C : 0.035 in bending

D : 0.0035 in shear

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Q : 2) Which IS code provides recommended guidelines for concrete mix design?

A : IS 12813

B : IS 800

C : IS 1373

D : IS 10262

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Q : 3) The spacing of stirrups in a beam :

A : Increases near the support

B : Decreases near the support

C : Depends on the size of the beam

D : Is the same everywhere

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Q : 4) 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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Q : 5) For concrete works in sea water or exposed directly along the sea coast, the minimum grade of concrete recommended by IS 456 : 2000, for plain concrete and reinforced concrete are, respectively

A : M10 and M20

B : M20 and M30

C : M15 and M25

D : M25 and M40

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Q : 6) The maximum permissible value of organic solids in water, used for the preparation of concrete as per IS 456 : 2000 is

A : 200 mg/l

B : 500 mg/l

C : 3000 mg/l

D : 2000 mg/l

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Q : 7) The sections in which tension steel reaches yield strain at loads lower than loads at which concrete reaches strain are called

A : Composite sections

B : Under reinforced sections

C : Balanced reinforced sections

D : Over reinforced sections

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Q : 8) What is the maximum permissible limit of organic solids present in water used in concrete mixing as per IS 456 – 2000?

A : 3000 mg/L

B : 200 mg/L

C : 400 mg/L

D : 2000 mg/L

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Q : 9) Concrete in the member represented by core test shall be considered acceptable if the average equivalent cube strength of cores is equal to at least _____% of cube strength of the grade of concrete specified for the corresponding age

A : 90

B : 85

C : 50

D : 70

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Q : 10) What is the minimum cement content for a reinforced concrete structural member subjected to moderate exposure condition as per IS 456 : 2000?

Assume 20 mm nominal maximum size aggregates are used.

A : 350 kg/m³

B : 380 kg/m³

C : 300 kg/m³

D : 280 kg/m³

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Q : 11) If the age of loading increases, the creep coefficient for concrete will

A : Remain constant

B : Increase if age of loading is greater than 28 days, otherwise it will decrease

C : Increase

D : Decrease

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Q : 12) 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 : Three-fourth

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Q : 13) According to IS 456-2000, nominal cover for reinforcements in case of footing, under, 'very severe' exposure

A : Shall not be less than 40 mm

B : Shall not be less than 25 mm

C : Shall not be less than 50 mm

D : Shall not be less than 30 mm

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Q : 14) What is minimum period before striking the formwork to RCC slabs (with props to be refixed immediately after removal of formwork)?

A : 7 days

B : 14 days

C : 21 days

D : 3 days

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Q : 15) Which of the following statements pertaining are true or false?

ST1 : Mild steel has higher ultimate tensile strength when compared to high carbon steel

ST2 : TOR steel is high strength deformed bars with high yield and bond strength

A : Both ST1 and ST2 are true

B : ST1 is false and ST2 is true

C : ST1 is true and ST2 is false

D : Both St1 and ST2 are false

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Q : 16) The shape of idealized stress-strain curve for concrete as prescribed by IS 456-2000 is

A : Rectangular

B : Parabolic

C : Rectangular-parabolic

D : None of these

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Q : 17) In the limit state design of concrete structure, the strain distribution is assumed to be :

A : Linear

B : Nonlinear

C : Parabolic

D : Rectangular-parabolic

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Q : 18) Minimum thickness of load bearing RCC wall should be

A : 5 cm

B : 10 cm

C : 15 cm

D : 20 cm

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Q : 19) Mild steel used in RCC structure conforms to

A : IS : 432

B : IS : 1566

C : IS : 1786

D : IS : 2062

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Q : 20) Percentage of steel for balanced design of a singly reinforced rectangular section by limit state method depends on

A : Characteristic strength of concrete

B : Yield strength of steel

C : Modulus of elasticity of steel

D : Geometry of the section

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Q : 21) According to IS : 456, the number of grades of concrete mixes is-

A : 3

B : 4

C : 5

D : 7

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Q : 22) In limit state approach, spacing of main reinforcement controls primarily _____.

A : Collapse

B : Durability

C : Deflection

D : Cracking

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Q : 23) Permanent dimension changes due to loading of concrete is termed as :

A : Strain

B : Extent

C : Creep

D : Ambit

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Q : 24) When not specified, the volume of steel in RCC work is taken as

A : 1% to 6% of RCC volume

B : 2% to 4% of RCC volume

C : 4% to 6% of RCC volume

D : 0.6% to 1% of RCC volume

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Q : 25) Rise of a jack arch is kept about

A : $\frac{1}{2}$ to $\frac{1}{3}$ of the span

B : $\frac{1}{3}$ to $\frac{1}{4}$ of the span

C : $\frac{1}{4}$ to $\frac{1}{8}$ of the span

D : $\frac{1}{8}$ to $\frac{1}{2}$ of the span

RCC-1 | SSC JE PYQ | BY AVNISH SIR | EVEREXAM

Q : 26) The maximum thickness of concrete floor of a cement warehouse is

A : 10 cm

B : 15 cm

C : 20 cm

D : 25 cm



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