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Q : 1) Consider the following statements:

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

- 1. Characteristic strength of concrete**
- 2. Yield strength of steel**
- 3. Modulus of elasticity of steel**
- 4. Geometry of the section**

Which of these statements are correct?

A : 2, 3 and 4

B : 1, 3 and 4

C : 1, 2 and 4

D : 1, 2 and 3

Q : 2) Which of the following factors would greatly affect the attainment of best possible strength of the concrete mix produced using the weigh-batcher?

- 1. Moisture content in the sand and gravel**
- 2. Inadequate or excess use of approved admixtures.**
- 3. Speed of rotation of the drum.**
- 4. None-emptying of the drum as fully as possible**

A : 1 and 4

B : 1 and 2

C : 1 and 2

D : 3 and 4

Q : 3) Consider the following statements:

- 1. Modulus of elasticity of concrete increases with the increase in compressive strength of concrete**
- 2. Shear strength of concrete increases with the increase in compressive strength of concrete**

Which of these statements is/are correct?

- | | |
|----------------------------|-------------------------|
| A : Neither 1 nor 2 | B : Both 1 and 2 |
| C : 1 only | D : 2 only |

Q : 4) The additional cover thickness to be provided in reinforced concrete members that are totally immersed in seawater is

A : 25 mm

B : 30 mm

C : 35 mm

D : 40 mm

Q : 5) The minimum grade of reinforced concrete in seawater as per IS 456-2000 is

A : M 15

B : M 20

C : M 30

D : M 40

Q : 6) Consider the following statements concerning 'elasticity of concrete'

- 1. Stress-strain behaviour of concrete is a straight line up to 10% of ultimate stress.**
- 2. Strain determination is obtained from tangent modulus**
- 3. Modulus of elasticity of concrete is also called as secant modulus.**

Which of the above statements are correct?

A : 1, 2 and 3

B : 1 and 3 only

C : 1 and 2 only

D : 2 and 3 only

Q : 7) If any tension reinforcement in an RC beam attains its yield stress during loading before the concrete in the compression zone fails due to crushing, the beam is said to be

A : Under-reinforced

B : Over-reinforced

C : Balanced

D : Non-homogeneous

Q : 8) The distance between the centroid of the area of tension reinforcement and the maximum compressive fibre in a reinforced concrete beam design is known as

A : Overall depth

B : Effective depth

C : Lever arm

D : Depth of neutral axis

Q : 9) What is the pH value of potable water, as specified by IS 456-2000?

A : Equal to 7

B : Between 6 and 9

C : Less than 6

D : Not less than 6

Q : 10) A certain RC structure has to be constructed along a sea coast. The minimum grade of concrete to be used as per IS 456:2000 is

A : More than M20

B : More than M20 and less than M30

C : Not less than M30

D : Less than M45 and more than M30

Q : 11) Consider the following cases in the design of reinforced concrete members in flexure:

- 1. Over-reinforced section**
- 2. Tension failure**
- 3. Compression failure**
- 4. Under-reinforced section**

Which of the above cases are considered for safe design of R.C. members in flexure?

- A : 1 and 2 only**
- B : 2 and 4 only**
- C : 2 and 4 only**
- D : 1 and 3 only**

Q : 12) Fatigue in RCC beams will not be a problem if the number of cycles is less than

A : 20,000

B : 25,000

C : 30,000

D : 35,000

Q : 13) As per IS-456 : 2000, cracking of concrete in tension zone cannot be avoided but can be limited by

- 1. Adhering to the codal requirements of minimum steel area**
- 2. Proper and prolonged curing of concrete**
- 3. Increasing water cement ratio to increase workability**

A : 1 and 2 only

B : 1 and 3 only

C : 2 and 3 only

D : 1, 2 and 3

Q : 14) Which of the following are correct for cover to reinforcement?

- 1. The reinforcement shall have a minimum clear cover of 20 mm or diameter of such bar whichever is more**
- 2. At each end of reinforcing bar not less than 25 mm nor less than twice the diameter of such bar.**
- 3. Increased cover thickness may be provided when surface of concrete is exposed to the action of harmful chemicals.**

A : 1, 2 and 3

B : 1 and 2 only

C : 1 and 3 only

D : 2 and 3 only

Q : 15) If the nominal shear stress (τ_v) at a section does not exceed the permissible shear stress (τ_c)

A : Minimum shear reinforcement is steel provided

B : Shear reinforcement is provided to resist the nominal shear stress

C : No shear reinforcement is provided

D : Shear reinforcement is provided for the difference of the two

Q : 16) Shear span is defined as the zone where

A : Bending moment is zero

B : Shear force is zero

C : Shear force is constant

D : Bending moment is constant

Q : 17) While checking shear resistance of reinforced concrete beams for limit state of collapse as per IS : 456, which one of the following nominal shear stress recommendations is to be adhered to? (V_u is shear force at vertical cross-section, 'b' and 'd' are overall breadth and effective depth of beam respectively?)

A : $0.5 V_u / bd$

B : $2 V_u / 5 bd$

C : $V_u / 0.5 bd$

D : V_u / bd

Q : 18) The chances of diagonal tension in R.C.C. member reduce when

A : Axial compression and shear force act simultaneously

B : Axial tension and shear force act simultaneously

C : Only shear force act

D : Flexural and shear force act simultaneously

Q : 19) The codal provisions recommend minimum shear reinforcement in the form of stirrups in the beams

- 1. To cater for any torsion in the beam section**
- 2. To improve ductility of the cross-section**
- 3. To improve dowel action of longitudinal tension bars**

Select the correct answer using the codes given below:

A : 1, 2 and 3

B : 2 and 3

C : Only 1

D : Only 2

Q : 20) Which one of the following statements is correct?

Minimum shear reinforcement in beams is provided in the form of stirrups

A : To resist extra shear force due to live load

B : To resist the effect of shrinkage of concrete

C : To resist principal tension

D : To resist shear cracks at the bottom of beam

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