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Q : 1) The modulus of elasticity of high tensile steel is

A : Smallest than that of mild steel

B : Equal to that of mild steel

C : Larger than that of mild steel

D : Equal to that of aluminium

Q : 2) Yield stress of ordinary mild steel bars after twisting to a pitch of about 9 to 12 diameters

A : Increases by about 50%

B : Decreases by about 30%

C : Increases by about 20%

D : Decreases by 10%

Q : 3) Consider the following statements concerning both the working stress design and ultimate strength design of reinforced concrete:

- 1. Plane section before bending remains plane after bending**
- 2. The tensile strength of concrete is ignored of these statements**

A : 1 alone is correct

B : 2 alone is correct

C : Both 1 and 2 are correct

D : Both 1 and 2 are false

Q : 4) In case of a composite construction, the effect of creep and shrinkage

A : Can be ignored even at the limit state of serviceability

B : Can be ignored at the ultimate limit state due to large inelastic strains induced

C : Can be completely eliminated if the props are removed after 28 days

D : In the in-situ concrete has no interaction on the stresses in the pre-cast component at any stage

Q : 5) The maximum strain in concrete at the outermost compression fibre in the limit state design of flexural member is (as per IS: 456-1978)

A : 0.0020

B : 0.0035

C : 0.0065

D : 0.0050

Q : 6) Deflection can be controlled by using the appropriate

A : Aspect ratio

B : Modular ratio

C : Span/depth ratio

D : Water/cement ratio

Q : 7) The final deflection due to all including the effects of temperature, creep and shrinkage and measured from as-cast level of supports of floors, roofs and all other horizontal members should NOT exceed

A : $\text{Span}/350$

B : $\text{Span}/300$

C : $\text{Span}/250$

D : $\text{Span}/200$

Q : 8) Combination of partial safety factors for loads under limit state of collapse and limit state of serviceability will be

A : $1.5 (D.L. + L.L)$ or $1.5 (D.L + W.L)$ or $1.2 (D.L + L.L + W.L)$ and $D.L + 0.8 (L.L + W.L)$

B : $1.5 (D.L + L.L)$ and $D.L + 0.8 (L.L + W.L)$

C : $1.5 (D.L + L.L)$ or $1.5 (D.L + W.L)$ or $1.2 (D.L + L.L + W.L)$ and $1.0 (D.L + L.L)$ or $1.0 (D.L + W.L)$ or $D.L + 0.8 (L.L + W.L)$

D : $1.2 (D.L + L.L + W.L)$ and $1.0 (D.L + L.L)$ or $1.0 (D.L + W.L)$ or $D.L + 0.8 (L.L + W.L)$

Q : 9) AS per IS: 456-1978, the ratio of stress in concrete to its characteristic strength at collapse in flexure for design purposes is taken as

A : 0.67

B : 0.576

C : 0.447

D : 0.138

Q : 10) In limit state design of reinforced concrete, deflection is computed by using

A : Initial tangent modulus

B : Secant modulus

C : Tangent modulus

D : Short and long-term values of Young's modulus

Q : 11) The ratio of direct tensile strength to that of modulus of rupture of concrete is

A : 0.25

B : 0.5

C : 0.75

D : 1.0

Q : 12) Partial safety factor for concrete and steel are 1.5 and 1.15 respectively, because

A : Concrete is heterogeneous while steel is homogeneous

B : The control on the quality of concrete is not as good as that of steel

C : Concrete is weak in tension

D : Voids in concrete are 0.5% while those in steel are 0.15%

Q : 13) As compared to working stress method of design, limit state method takes concrete to

A : A high stress level

B : A lower stress level

C : The same stress level

D : Sometimes higher but generally lower stress level

Q : 14) If σ_{cbc} is permissible compressive stress in flexural compression in N/mm² in service, the modular ratio is of the order of

A : $\frac{280}{\sigma_{cbc}}$

B : $\frac{280}{4\sigma_{cbc}}$

C : 19

D : 13

Q : 15) Consider the following statements:

Under-reinforced concrete flexural members

- 1. Are deeper**
- 2. Are stiffer**
- 3. Can undergo larger deflection**

Which of these statements is/are correct?

A : 1, 2 and 3

B : 1 and 2

C : 2 only

D : 1 and 3

Q : 16) Long term elastic modulus in terms of creep coefficient (θ) and 28-day characteristic strength (f_{ck}) is given by

A : $\frac{5000\sqrt{f_{ck}}}{1+\theta}$ MPa

B : $\frac{50000\sqrt{f_{ck}}}{1+\theta}$ MPa

C : $\frac{5000 f_{ck}}{1+\sqrt{\theta}}$ MPa

D : $\frac{5000\sqrt{f_{ck}}}{\sqrt{1+\theta}}$ MPa

Q : 17) Match List I with list II and select the correct answer:

List-I	List-II
A. Serviceability	1. Sliding
B. Shear key	2. Deflection
C. Shrinkage	3. Cracking
D. Concrete spalling	4. Corrosion

A : 1, 3, 4, 2

B : 2, 1, 3, 4

C : 1, 3, 2, 4

D : 2, 1, 4, 3

Q : 18) Assertion (A): The stress block used in the limit state design method is obtained by testing of concrete cylinder under uniform rate of strain.

Reason (R): If a uniform rate of strain is not adopted it is not possible to obtain the descending portion of stress and strain curve beyond maximum stress.

Q : 19) Consider the following statements:

- 1. The limit state of collapse is defined as the acceptable limit for the stresses in the materials.**
- 2. Limit state method is one that ensures adequate safety of structure against collapse**
- 3. In the limit state design method, actual stresses developed at collapse differ considerably from the theoretical values**

Which of the above statements is/are correct?

A : 1 and 2

B : 1 and 3

C : 2 and 3

D : None

Q : 20) Consider the following statements:

- 1. Elastic material**
- 2. Visco-elastic material**
- 3. Visco-plastic material**

Which of the statements given above is/are correct?

A : 1, 2 and 3

B : 2 and 3

C : 2 only

D : 1 only

Q : 21) What is the value of flexural strength of M 25 concrete?

A : 4.0 MPa

B : 3.5 MPa

C : 3.0 MPa

D : 1.75 MPa

Q : 22) Characteristic strength of M20 concrete is 20 MPa. What is the number of cubes having 28 day's compressive strength greater than 20 MPa out of 100 cubes made with the concrete?

A : All

B : 95

C : 80

D : 50

Q : 23) Consider the following statements:

Modulus of elasticity of concrete is

- 1. Tangent modulus**
- 2. Secant modulus**
- 3. Proportional to $\sqrt{f_{ck}}$**
- 4. Proportional to $1 / \sqrt{f_{ck}}$**

Which of the statements given above are correct?

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

Q : 24) Working stress method of design for reinforced concrete is

A : Not a limit state design

B : A serviceability limit state design

C : A limit state for crack width

D : A collapse limit state

Q : 25) What is the minimum value of individual test results (in N/mm^2) for compressive strength compliance requirement for concrete M20 as per codal provision?

A : $f_{ck} - 1$

B : $f_{ck} - 3$

C : $f_{ck} - 4$

D : $f_{ck} - 5$

Q : 26) Match List-I with List-II and select the correct answer using the code given below the lists:

List-I	List-II
A. IS-875	1. Earthquake resistance design
B. IS-1343	2. Loads
C. IS-1893	3. Liquid storage structure
D. IS-3370	4. Prestressed concrete

A : 3, 1, 4, 2

B : 2, 1, 4, 3

C : 3, 4, 1, 2

D : 2, 4, 1, 3

Q : 27) Consider modular ratio as 13, grade of concrete as M20 and grade of steel as 415, what is the ratio of balanced depth of neutral axis as per working stress method to the balanced depth of neutral axis as per limit state method?

A : 12/7

B : 11/3

C : 7/12

D : 3/11

Q : 28) Match List-I with List-II and select the correct answer using the code given below the lists:

List-I	List-II
A. Moment & Shear	1. Durability coefficients
B. Fire resistance	2. Stability
C. Sliding	3. Analysis of structure
D. Span to depth	4. Deflection limits ratio of beam

A : 4, 2, 1, 3

B : 3, 2, 1, 4

C : 4, 1, 2, 3

D : 3, 1, 2, 4

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