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Q : 1) Shear resistance of concrete in a reinforced concrete beam is dependent on

A : Tension reinforcement on the beam

B : Compression reinforcement in the beam

C : Shear reinforcement in the beam

D : None of the reinforcements in the beam

Q : 2) In a reinforced concrete section, the shape of the nominal shear stress diagram is

A : Parabolic over the full depth

B : Parabolic above the neutral axis and rectangular below the neutral axis

C : Rectangular over the full depth

D : Rectangular above the neutral axis and parabolic below the neutral axis

Q : 3) If a 2-legged 8 mm diameter HYSD bar is used as shear reinforcement for a beam of width 230 mm and effective depth 300 mm, what is the nearest magnitude of the spacing of minimum shear reinforcement?

A : 420 mm

B : 390 mm

C : 350 mm

D : 320 mm

Q : 4) As per IS 456-2000, the maximum permissible shear stress, $\tau_{c\ max}$ is based on

A : Diagonal tension failure

B : Diagonal compression failure

C : Flexural tension failure

D : Flexural compression failure

Q : 5) A simply supported beam having 200 mm width and 450 mm effective depth supports a total uniformly distributed load of 2,00,000 N. The nominal shear stress will be nearly

A : 0.8 N/mm²

B : 1.1 N/mm²

C : 1.8 N/mm²

D : 2.2 N/mm²

Q : 6) In limit state design, permissible bond stress in the case of deformed bars is more than that in plain bars by

A : 60%

B : 50%

C : 40%

D : 25%

Q : 7) Consider the following statements

- 1. Reinforcement that is no longer required for flexure beyond a certain section, shall however be extended by d or 12ϕ , whichever is greater, before being curtailed**
- 2. At least half the bars should be bent up at the cut-off point**
- 3. The shear capacity at cut-off point should at least be 1.5 times the shear force at that section**

Which of the statements given above are correct?

A : 1 and 2

B : 1 and 3

C : 2 and 3

D : 1, 2 and 3

Q : 8) Match List I (Reinforcement type) with List II (anchorage requirement) and select the correct answer using the codes given below the lists

List-I	List-II
A. Footing slab, tensile reinforcement	1. $L_d/3$ into the support
B. Cantilever beam, tensile reinforcement	2. 6ϕ for 135° bend
C. Simply supported beam, tensile reinforcement	3. L_d into the support
D. Beam, shear stirrup	4. L_d from the column face

Codes:

A : 1, 3, 4, 2

B : 1, 2, 4, 3

C : 4, 3, 1, 2

D : 4, 2, 1, 3

Q : 9) The bond between steel and concrete is mainly due to

- 1. Mechanical resistance**
- 2. Pure adhesive resistance**
- 3. Frictional resistance**

A : 1 and 2 only

B : 1 and 3 only

C : 2 and 3 only

D : 1, 2 and 3

Q : 10) If a beam is likely to fail due to high bonding stresses, the its bond strength can be increased most economically by

A : Providing vertical stirrups

B : Increasing the depth of the beam

C : Using smaller diameter bars in correspondingly more numbers

D : Using higher diameter bars by reducing their numbers



Q : 11) Gantt charts indicate

A : Comparison of actual progress with the scheduled progress

B : Balance of work to be done

C : Progressive costs of project

D : Inventory coats



Q : 12) A serious limitation of inter dependences between various activities is generally observed in

A : Bar charts

B : Milestone charts

C : Network analysis

D : Job layouts

Q : 13) Match List-I (Diagram based Nomenclature) with List-II (information capability) and select the correct answer using the code given below the lists:

List-I	List-II
A. Work-breakdown structure	1. Target dates for interface events can be stipulated
B. Bar chart	2. Can be hierarchical
C. Linked bar chart	3. Can include information on cost distribution over time
D. Time computations on network	4. Best suited for monitoring on network including that for costs

Codes:

A : 4, 3, 2, 1

B : 2, 1, 4, 3

C : 4, 1, 2, 3

D : 2, 3, 4, 1

Q : 14) Match List-I (Diagram based nomenclature) with List-II (information capability) and select the correct answer using the code given below the lists:

List-I	List-II
A. Work-breakdown structure	1. Target dates for interface events can be stipulated
B. Bar chart	2. Can be hierarchical
C. Linked bar chart	3. Can include information on cost distribution over time
D. Time computations on network	4. Best suited for monitoring on network including that for costs

Codes:

A : 4, 3, 2, 1

B : 2, 1, 4, 3

C : 4, 1, 2, 3

D : 2, 3, 4, 1

Q : 15) What is the significant purpose of monitoring a project throughout its implementation phase?

A : To fix responsibility for delays

B : To rerail the project with control over cost over-run

C : To rerail the project with minimum time over-run

D : To rerail the project with optimal time and cost over-run

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