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Q : 1) Match List-I and List-II, and select the correct answer using the codes in given below list.

List-I	List-II
i. Preliminary estimate	1. Probable variation for quantity rate and amount for each items
ii. Revised estimate	2. Material deviation of a structural nature
iii. Supplementary estimate	3. Complete estimate
iv. Quantity estimate	4. Approximate cost of the project

Codes:

A: 4, 1, 2, 3

B: 4, 2, 1, 3

C: 3, 1, 2, 4

D: 3, 2, 1, 4

Q : 2) The total number of grades of ordinary concrete stipulated in IS: 456-2000 are

A: 10

B: 8

C: 3

D: 6

Q : 3) Two shafts of same length and material are jointed in series. If the ratio of their diameters is 2, then the ratio of their angles of twist will be

A: 2

B: 4

C: 8

D: 16

Q : 4) The mortar used for masonry construction are classified based on strength. In IS : 2950 and IS : 1905 according to their designations L_1 , L_2 , H_1 , H_2 , M_1 and M_2 . The correct sequence of increasing order of their strength is

A: L_1 , L_2 , H_1 , H_2 , M_1 and M_2

B: L_2 , L_1 , M_2 , M_1 , H_2 and H_1

C: L_1 , L_2 , M_1 , M_2 , H_1 and H_2

D: M_1 , M_2 , L_1 , L_2 , H_1 and H_2

Q : 5) A prismatic bar in compression has a cross-sectional area $A = 1200 \text{ mm}^2$ and carries a load $P = 90 \text{ kN}$. Normal and shear stresses acting on a plane cut through the bar at $\theta = 25^\circ$, are respectively

A: 61.6 MPa and 28.7 MPa

B: 49.5 MPa and 23.8 MPa

C: 78.2 MPa and 20.7 MPa

D: 73.4 MPa and 29.2 MPa

Q : 6) The minimum width of tread without nosing for staircase of residential building shall be

A: 150 mm

B: 190 mm

C: 200 mm

D: 300 mm

Q : 7) A cast iron column of external diameter of 300 mm is 20 mm thick. Find safe compressive load on column with factor of safety of 5, if the crushing strength of material is 550 N/mm^2

A: 1925.21 kN

B: 1935.21 kN

C: 1945.21 kN

D: 1955.21 kN

Q : 8) The water-cement ratio for ferrocement mix should be

A: Less than 0.35

B: Between 0.35 to 0.40

C: Between 0.40 to 0.50

D: Greater than 0.60

Q : 9) A simply supported beam of length 6 m carries a point load at the beam such that the maximum bending moment there is 12 kN-m, if 'EI' is the flexural rigidity of the beam, the deflection at the centre is
A. $\frac{9}{EI}$
B. $\frac{18}{EI}$
C. $\frac{36}{EI}$
D. $\frac{45}{EI}$

DFCCIL 50 QUESTIONS CHALLENGE

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Q : 9) A simply supported beam of length 6 m carries a point load at the beam such that the maximum bending moment there is 12 kN-m, if 'EI' is the flexural rigidity of the beam, the deflection at the centre is

A: $\frac{9}{EI}$

B: $\frac{18}{EI}$

C: $\frac{36}{EI}$

D: $\frac{45}{EI}$

Q : 10) The minimum depth of the reinforced bond provided as strengthening arrangement in masonry building is

A: 75 mm

B: 60 mm

C: 50 mm

D: 40 mm

Q : 11) When a body is subjected to a direct tensile stress (p) in one plane accompanied by a simple shear stress (q), the maximum normal stress is
A: $\frac{p}{2} + \frac{1}{2}\sqrt{p^2 + 4q^2}$
B: $\frac{p}{2} - \frac{1}{2}\sqrt{p^2 + 4q^2}$
C: $\frac{p}{2} + \frac{1}{2}\sqrt{p^2 - 4q^2}$
D: $\frac{p}{2} - \frac{1}{2}\sqrt{p^2 - 4q^2}$

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Q : 11) When a body is subjected to a direct tensile stress (p) in one plane accompanied by a simple shear stress (q), the maximum normal stress is

A: $\frac{p}{2} + \frac{1}{2}\sqrt{p^2 + 4q^2}$

B: $\frac{p}{2} - \frac{1}{2}\sqrt{p^2 + 4q^2}$

C: $\frac{p}{2} + \frac{1}{2}\sqrt{p^2 - 4q^2}$

D: $\frac{p}{2} - \frac{1}{2}\sqrt{p^2 - 4q^2}$

Q : 12) Technical term ‘Eaves’ is defined as

A: The apex line of the sloping roof Surface

B: Sloped triangular surface formed at the end of the roof

C: Sloped triangular surface formed at the end of a roof

D: The ridge formed by the intersection of two sloping surfaces

Q : 13) A ductile structure is defined as one for which the plastic deformation before fracture

A: Is smaller than the elastic deformation

B: Vanishes

C: Is equal to the elastic deformation

D: Is much larger than elastic deformation

Q : 14) The method suitable for measuring the workability of dry concrete mix having very low workability is

A: Slump test

B: Compaction factor test

C: Vee-bee consistometer test

D: Vicat test

Q : 15) The first moment of area of a rectangular section of width 'b' and depth 'h' about centre of gravity is

A: $\frac{h^2}{2}$

B: $\frac{b \cdot h^2}{4}$

C: Zero

D: $b \cdot h^2$

Q : 16) According to national building code 2016, the slope of a ramp in the building shall NOT exceed

A: 1 in 12

B: 1 in 10

C: 1 in 18

D: 1 in 6

Q : 17) The ratio of the stiffness of the beam at the near end when the far end is hinged, to the stiffness of the beam at the near end when the far end is fixed

A: $\frac{4}{3}$

B: $\frac{3}{4}$

C: 1

D: $\frac{1}{2}$

Q : 18) A property fetch a net annual income of 80,000/- after deducting all outgoings. Rate of interest is 6% per annum. What is capitalized value of the property?

A: 13,33,600/-

B: 9,30,000/-

C: 16,63,500/-

D: 9,33,900/-

Q : 19) The deflection at the free end of a cantilever beam subjected to a couple 'M' at the free end and having an uniform flexural rigidity 'EI' throughout its length 'L' is equal to

A: $\frac{ML^2}{2EI}$

B: $\frac{ML^2}{3EI}$

C: $\frac{ML^2}{6EI}$

D: $\frac{ML^2}{8EI}$

Q : 20) Match List-I and List-II and select the correct answer using the codes given below the lists.

List-I	List-II
i. Index plan	1. Details of plumbing service, water supply and sewage disposal system
ii. Key plan	2. Relative position of all the different units
iii. Service plan	3. General layout of a new town showing the position of roads, Market, hospital, parks etc.
iv. Layout plan	4. Details of the particular building

Codes:

A: 4, 3, 2, 1

B: 3, 4, 1, 2

C: 3, 1, 2, 4

D: 4, 1, 2, 3

Q : 21) A three hinged arch ABC has a span of 20 m and central rise of 4 m. The arch has hinged at the end and at the centre. A train of two point loads of 20 kN and 10 kN, 5 m apart crosses this arch from left to right with 20 kN load leading. The maximum thrust induced at the support is

A: 25 kN

B: 32.81 kN

C: 28.13 kN

D: 31.25 kN

Q : 22) Base of a paint is

A: Linseed oil

B: Poppy oil

C: Sulphates of zinc and manganese

D: White lead

Q : 23) Influence line for redundant structures can be obtained by

A: Castigliano's theorem

B: Unit load theorem

C: Muller-Breslau principle

D: Maxwell Betti's reciprocal theorem

Q : 24) Part of brick which has half-header face and half-stretcher face is known as

A: Bevelled closer

B: King closer

C: Queen closer

D: Bat

Q : 25) A single bay portal frame of height 'h' fixed at the base is subjected to a horizontal displacement ' Δ ' at the top. The base moment developed is proportional to all members are prismatic.

A: $\frac{1}{h}$

B: $\frac{1}{h^2}$

C: $\frac{1}{h^3}$

D: None of these

Q : 26) In a 'PERT' analysis, if the probability factor is negative, the chances of completing the project in time is

- A: Less than 50%**
- B: Fifty-fifty %**
- C: More than 50%**
- D: Zero**

Q : 27) Which is the unit matrix or identify matrix in the following?

A:
$$\begin{bmatrix} 1.0 & 0.0 & 1.0 \\ 0.0 & 1.0 & 0.0 \\ 1.0 & 0.0 & 1.0 \end{bmatrix}$$

B:
$$\begin{bmatrix} 1.0 & 0.0 & 0.0 \\ 1.0 & 0.0 & 0.0 \\ 1.0 & 0.0 & 0.0 \end{bmatrix}$$

C:
$$\begin{bmatrix} 0.0 & 1.0 & 0.0 \\ 0.0 & 1.0 & 0.0 \\ 0.0 & 1.0 & 0.0 \end{bmatrix}$$

D:
$$\begin{bmatrix} 1.0 & 0.0 & 0.0 \\ 0.0 & 1.0 & 0.0 \\ 0.0 & 0.0 & 1.0 \end{bmatrix}$$

Q : 28) The limit state of serviceability includes

- 1. Deflection**
- 2. Repairable damage or crack due to fatigue**
- 3. Vibration**
- 4. Fire**

A: Only 1 and 3

B: Only 1 and 4

C: Only 1, 3 and 4

D: 1, 2, 3 and 4

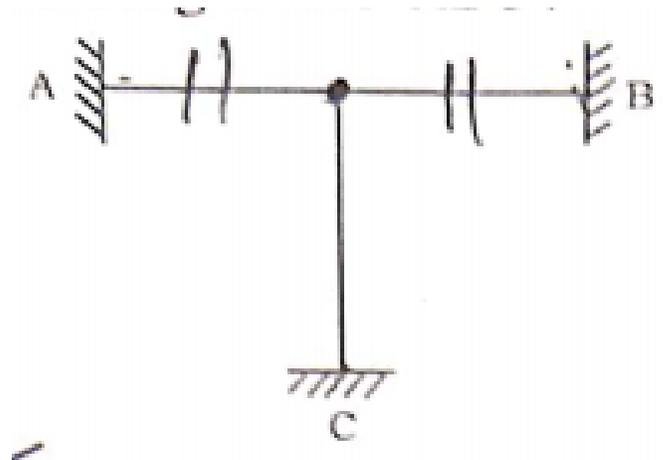
Q : 29) Neglecting axial changes in lengths, determine the kinematic indeterminacy of the following frame 'ABC'.

A: 3

B: 2

C: 1

D: 9



Q : 30) In steel structures, the thickness of the base plate in column base is determined from the

A: Flexural strength of plate

B: Shear strength of plate

C: Bearing strength of concrete pedestal

D: Punching criteria

Q : 31) For a linear elastic structural system minimization of potential energy yields

A: Compatibility condition

B: Constitutive relationship

C: Equilibrium equations

D: Strain displacement relations

Q : 32) Match List-I and List-II and select correct answer using the codes given below the list.

List-I	List-II
1. Building lease	1. The lease holder does not have right to spend money on construction
2. Occupational lease	2. The lease holder can erect holder can erect a building
3. Sub-lease	3. Duration of lease is given until death
4. Life lease	4. The lease holder may render lease hold property

Codes:

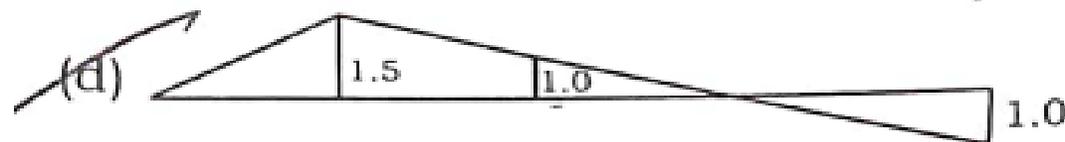
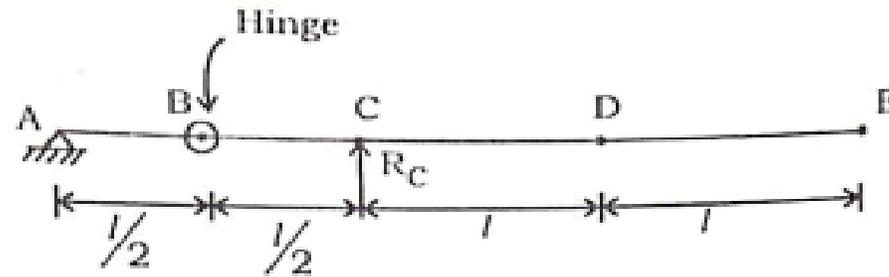
A: 1, 2, 4, 3

B: 2, 1, 4, 3

C: 3, 1, 2, 4

D: 3, 2, 1, 4

Q : 33) The influence line for support reaction R_C for the beam shown in figure will be as



Q : 34) A propped cantilever beam of span 'L' is carrying a vertical concentrated load acting at mid span. The plastic moment of the section is M_p . The magnitude of collapse load will be

A: $8 M_p/L$

B: $6 M_p/L$

C: $4 M_p/L$

D: $2 M_p/L$

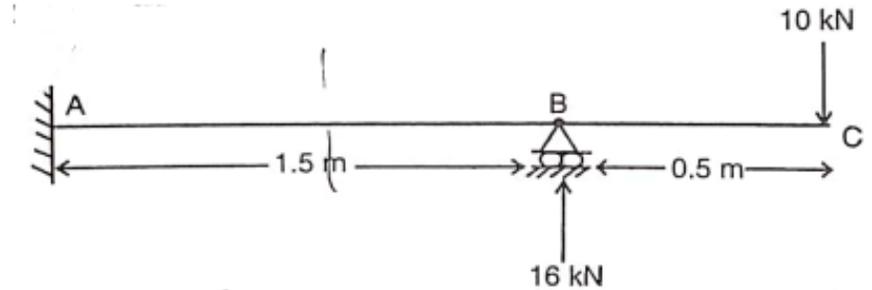
Q : 35) A horizontal beam is shown below. The distance of the point of contraflexure from the end 'A' is

A: 0.333 m

B: 0.666 m

C: 1.50 m

D: 0.50 m



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