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Q :) 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 <br> 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 :) The total number of grades of ordinary concrete stipulated in IS:4562000 are
A : 10
B : 8
C : 3
D : 6

Q :) Two shafts of same length and material are joined in series. If the ratio of their diameters is $\mathbf{2}$, then the ratio of their angles of twist will be:
A : 2
B : 4
C: 8
D : 16

Q :) The mortar used for masonry construction are classified based on strength in IS :2950 and IS: 1905 according to their designations $L_{1}, L_{2}, H_{1}, M_{1}$ and $\mathbf{M}_{\mathbf{2}}$. 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 $H_{2}$
$D: L_{1}, L_{2}, H_{1}, H_{2}, M_{1}$ and $M_{2}$

Q :) A prismatic bar in compression has a cross sectional area $A=1200 \mathrm{~mm}^{2}$ and carries a load $\mathbf{P}=90 \mathrm{kN}$. Normal and shear stresses acting on a plane cut through the bar at ${ }^{\boldsymbol{\theta}}=$ $25^{0}$, 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 :) 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 :) A cast 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$\mathrm{N} / \mathrm{mm}^{2}$
A : 1925.21 kN
B : 1935.21 kN
C : 1945.21 kN
D : 1955.21 kN

Q :) The water-cement ratio for ferrocement mix should ne
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 :) A simply supported beam of length 6 m carries a point load at the centre of the beam such that the maximum bending moment there is $12 \mathrm{kN}-\mathrm{m}$, if ' El ' is the flexural rigidity of the beam, the deflection at the centre is
$\mathrm{A}: \frac{9}{E I} \quad \mathrm{~B}: \frac{18}{E I}$
C: $\frac{36}{E I}$
D : $\frac{45}{E I}$

# Q :) The minimum depth of the reinforced 

 bond provided as strengthening arrangement in masonry building isA : 75 mm
B : 60 mm
C : 50 mm
D : 40 mm

Q :) When a body is subjected to a direct tensile stress shear stress (q), the maximum normal stress is

$$
\begin{array}{ll}
\text { A: } \frac{p}{2}+\frac{1}{2} \sqrt{p^{2}+4 q^{2}} & \text { B: } \frac{p}{2}-\frac{1}{2} \sqrt{p^{2}+4 q^{2}} \\
\text { C: } \frac{p}{2}+\frac{1}{2} \sqrt{p^{2}=4 q^{2}} & \text { D }: \frac{p}{2}-\frac{1}{2} \sqrt{p^{2}-4 q^{2}}
\end{array}
$$

Q :) Technical term ‘Eaves' is defined as A : The apex line of the sloping roof B : The lower edge of the inclined roof surface C : Sloped triangular surface formed at the end of a roof
D : The ridge formed by the intersection of two surfaces

# Q :) A ductile structure is defined as one for 

 which the plastic deformation before fracture A : IS smaller than the elastic deformation B : VanishesC : Is equal to the elastic deformation
D : Is much larger than elastic deformation

# Q :) The method suitable for measuring 

 the workability of dry concrete mix having very low workability is A : Slump testB : Compaction factor test
C : Vee-bee consistometer test
D : Vicat test

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Q ) A bar 40 mm in diameter is subjected to a tensile force of 40000 kg . The extension of bar measured over a gauge length of $\mathbf{2 0 0} \mathrm{mm}$ was 0.318 mm . The decrease in diameter was found to be 0.02 mm . Calculate the values of Young's modulus of elasticity and modulus of rigidity of the material.

Q ) When a bar of certain material 40 cm square is subjected to an axial pull of $100,000 \mathrm{~N}$ the extension on a gauge length of 200 m is 0.1 mm and the decrease in each side of the square is 0.005 mm . Calculate young's modulus, poisson's ratio, shear modulus and bulk modulus for the material.

