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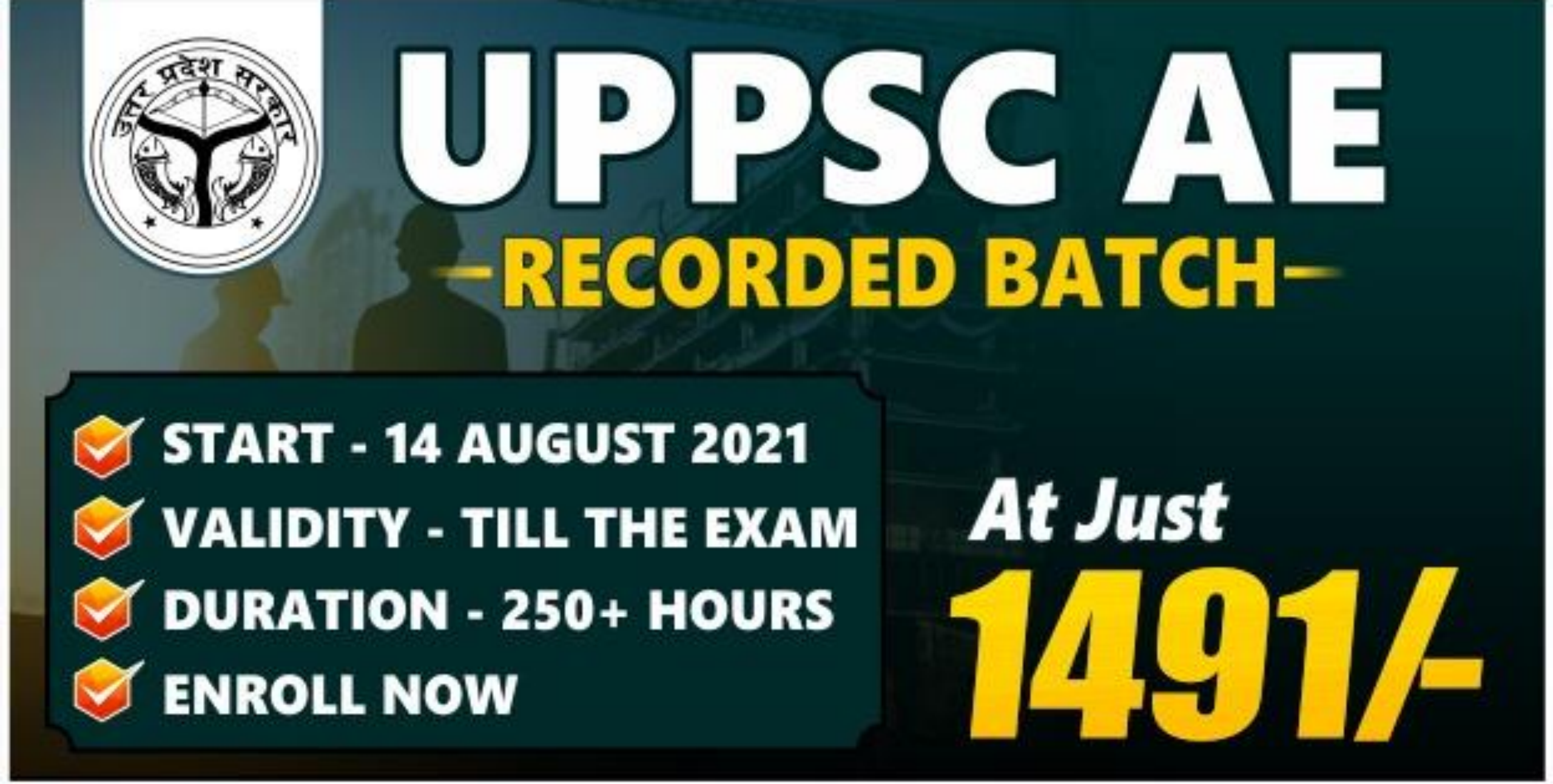
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TILL THE EXAM

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Q :) Influence line diagram for bending moment in a simply supported beam is a:

A : Straight line

B : Parabola

C : Triangle

D : None of these

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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Daily Class – 7:30 PM

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

A : Castigliano’s theorem

B : Muller-Breaslau principle

C : Unit load method

D : Maxwell-Betti reciprocal theorem

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

A : ½

B : ¾

C : 1

D : 4/3

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Q :) A fixed beam is an example of:

A : 3 dimensional structure

B : 2 dimensional structure

C : 1 dimensional structure

D : Determinate structure

Q :) Which one of the following is force method?

A : Slope deflection method

B : Strain energy method

C : Moment-distribution method

D : Stiffness method

Q :) Stiffness approach of solution of indeterminate structures intends to solve for:

A : Unknown force

B : Unknown action

C : Unknown displacement

D : None of the above

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Q :) The principle of working from ‘whole to part’ is used in surveying because:

A : Plotting becomes easy

B : Survey work can be completed quickly

C : Accumulation of errors is prevented

D : All of the above

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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Q :) Which one of the following is not a transition curve?

A : Cubic spiral

B : Cubic parabola

C : Bermalli’s laminiscale

D : Sag curve

Q :) In the prismatic compass

A : The magnetic needle moves with the box

B : The line of sight does not move with the box

C : The magnetic needle and graduated circle is fixed to each other

D : The graduated circle is fixed to the box and the magnetic needle always remains in the N-S direction

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Q :) The closing error in a closed traverse is adjusted by:

A : Lehmann’s rule

B : Slide rule

C : Bowditch’s rule

D : Simpson’s rule

Q :) The curved surface which at every point is perpendicular to the direction of gravity at that point is known as

A : A level plane

B : A level surface

C : A horizontal surface

D : A vertical surface

Q :) The R.L., of the point A which is on the floor is 100 m and backsight reading on A is 2.455 m. If the foresight reading on the point B which is on the ceiling is 2.745 m, the R.L. of point B will be:

A : 94.80

B : 99.71

C : 100.29

D : 105.20

Q :) The curvature and refraction corrections in the levelling are ..... to the observed reading.

A : Both additive

B : Both subtractive

C : Subtractive and additive respectively

D : Additive and subtractive respectively

Q :) Two bubble tube A and B are filled with water and alcohol respectively. Which of the following is the correct statement?

A : Sensitivity of B is more than A

B : Sensitivity of A is more than B

C : Sensitivity of A and B are same

D : All of these

Q :) The number of horizontal cross hairs in a stadia diaphragm is

A : 1

B : 2

C : 3

D : 4

Q :) The sensitiveness of a level tube decrease if ……..

A : Radius of curvature of its inner surface is increased

B : Diameter of the tube is increased

C : Length of the vapour bubble is increased

D : Both viscosity and surface tension and increased

Q :) Orientation of plane-table, by solving two-point problem, is adopted only when

A : Saving of time is a main factor

B : Better accuracy is a main factor

C : Given points are inaccessible

D : None of these

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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Q :) The substance bar can be used to measure:

A : Horizontal angle

B : Horizontal distance

C : Vertical angle

D : Vertical distance

Q :) It is the axis about which the instrument can be rotated in a horizontal plane.

A : Trunnion axis

B : Horizontal axis

C : Axis of the telescope

D : Vertical axis

Q :) θ_1 and θ_2 are the angles of elevation from 'A' to the top and bottom of a vertically held rod of length 'S' at B. The horizontal distance AB will be:
A : $\frac{S}{tan\,\theta_1 - tan\,\theta_2}$
B : $\frac{S}{tan\,\theta_1 + tan\,\theta_2}$
C : $\frac{S}{tan\,\theta_2 - tan\,\theta_1}$
D : S ($\tan\theta_1$ - $\tan\theta_1$)

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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A : $\frac{S}{tan\,\theta_1 - tan\,\theta_2}$

B : $\frac{S}{tan\,\theta_1 + tan\,\theta_2}$

C : $\frac{S}{tan\,\theta_2 - tan\,\theta_1}$

D : S ($\tan\theta_1$ - $\tan\theta_1$)

Q :) The great circle which the sun appears to describe on the celestial sphere with the earth as centre, in the course of a years, is called:

A : Hour circle

B : Celestial meridian

C : Celestial Ecliptic

D : Prime vertical

Q :) In an aerial photograph, if the average photo scale is 1 in 22000, the focal length of the camera lens is 20 cm, the flying height above datum is 5000m, the average terrain elevation above datum should be:

A : 600 m

B : 550 m

C : 500 m

D : 450 m

Q :) If the degree of a curve (specified length 30 m) is 3^0, the radius of curve is approximately:

A : 382 m

B : 573 m

C : 1910 m

D : None of these

Q :) The versed sine of a curve is:

A : The distance between the vertex and tangent point

B : The distance between vertex and apex of a curve

C : The distance between apex of a curve and mid-point of a long chord

D : The distance between vertex and mid-point of long chord

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Q :) The method which gives more accurate results in the measurement of areas is

A : Average ordinate rule

B : Mid ordinate rule

C : Trapezoidal rule

D : Simpson’s one third rule

Q :) As per the Indian standard (IS) 800 : 2007, the partial safety factor for material resistance governed by yielding failure of the steel is

A : 1.10

B : 1.15

C : 1.20

D : 1.50

Q :) On which connection, load is not eccentric?

OR

Loads on a connection is not eccentric for

OR

Which of the following joint type is not eccentric

A : Lap joint

B : Single cover butt joint

C : Double cover butt joint

D : None of these

Q :) If the diameter of a rivet is more than 25mm. The diameter of rivet hole as compared to nominal diameter of rivet will be:

A : More by 1.5 mm

B : More by 2.0 mm

C : More by 2.5 mm

D : Equal

Q :) Which one of the following is the mode of failure in a fillet weld material?

A : Tension

B : Shear

C : Bearing

D : Crushing

Q :) For a standard 45o fillet, the ratio of size of fillet of throat thickness us

A : 1 : 1

B : 1 : 1.414

C : 1.414 : 1

D : 2 : 1

Q :) Welded connection are preferred to riveted connections because

A : They are economical

B : Of the ease of connection

C : The loss of member strength is smaller

D : They reduce the secondary strength

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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Q :) Shape factor is given by

A : My/Mp

B : Z/Zp

C : Both of (a) & (b)

D : None of the above

Q :) The slenderness ratio $\left(\frac{l}{r}\right)$ of lacing flats is limited to

A : 145

B : 180

C : 250

D : 350

Q :) Minimum number of battens required in a battened column is

A : 2

B : 3

C : 4

D : 6

Q :) The maximum permissible slenderness ratio for steel ties likely to be subjected to compression is:

A : 400

B : 350

C : 250

D : 180

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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Q :) Effective length of a column is the length between the points of:

A : Support

B : Maximum moment

C : Zero moment

D : Zero shear

Q :) The strength of ‘strut’ depends on

A : Diameter of rivet used

B : Thickness of gusset plate

C : Net area of strut

D : Slenderness ratio of strut

Q :) The members which support covering material of a steel roof truss are-

A : Rafters

B : Purlins

C : Struts

D : Batens

Q :) Horizontal web stiffener are used in plate girders, if depth to thickness of web ratio is more than

A : 100

B : 180

C : 200

D : 300

Q :) The ratio of elastic modulus to plastic modulus for a rectangular section of steel is

A : 1.5

B : 0.66

C : 1.70

D : 0.25

#6 ALL STATE LEVEL MIXED PRACTICE (recent pattern question)

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Q :) In ISMB-400, 400 represents the….
Of the section

A : Flange width

B : Depth

C : Weight

D : None of these

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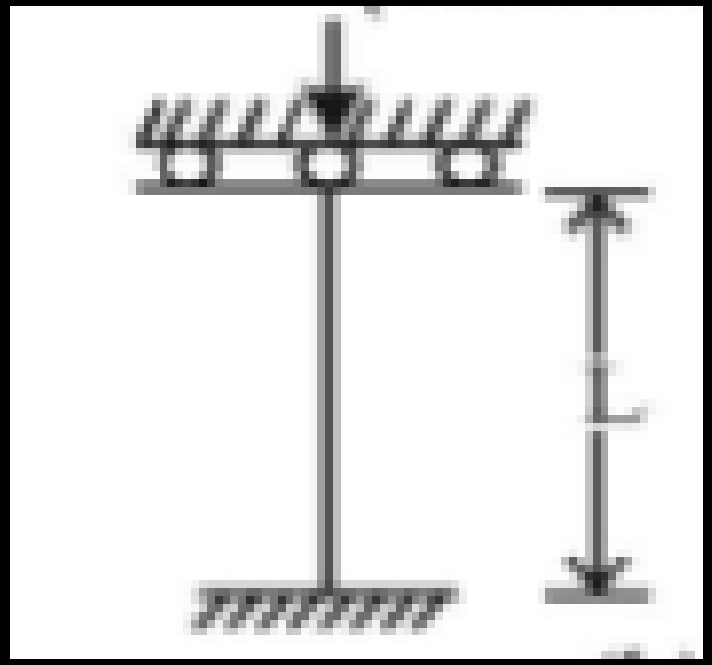
Q :) The effective length of the compression member shown in the figure is equal to



A : 1.2 L

B : 0.5 L

C : 2.0 L

D : 1.5 L

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