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Q : In a simply supported beam of span  $L$  carries a uniform load,  $W$  the maximum B.M. is:

[HPSSSB JE 03-07-2016]

A :  $WL/2$

B :  $WL/4$

C :  $WL/8$

D :  $WL/16$

Q : Shear span is defined as the zone where:

[UKPSC AC (Paper-I)2007]

A : Bending moment is zero

B : Shear force is zero

C : Shear force is constant

D : Bending moment is constant.

Q : Under a beam loading conditions, If the bending moment is constant over a certain span length, then the shear force would be:

[Coal India 2016]

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**A** : Zero

**B** : Decreasing

**C** : Constant and a non-zero value

**D** : Increasing

**Q** : The point where bending moment changes direction in a beam carrying load is called as:

[UP RVNL AE 2016]

**A** : The point of contra flexure

**B** : Point of zero stress

**C** : Point of zero deflection

**D** : Non-yielding support point.

**Q** : \_\_\_\_\_ is the algebraic sum of the moments of the forces on either side of the section of a loaded beam,

[DFCCIL, 17-04-2016]

**A** : Bending moment

**B** : Retaining walls

**C** : Shearing force

**D** : Modulus of resilience

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**Q :** The bending moment on a section in maximum where shear force:

[UPSSSC JE 31-07-2016/DMRC 2015]

**A :** Is maximum

**B :** Is minimum

**C :** Is equal

**D :** Changes sign.

**Q :** If characteristic compressive strength at 28 days is  $40\text{N/mm}^2$  and standard deviation is  $5\text{N/mm}^2$ , the target strength at 28 days for concrete mix proportional

[APPSC 2016]:

**A :**  $40\text{N/mm}^2$

**B :**  $45\text{N/mm}^2$

**C :**  $43.25\text{N/mm}^2$

**D :**  $48.25\text{N/mm}^2$

**Q :** If the values of  $t_0, t_i, t_p$  are 8, 2, and 18, the value of  $t_e$  is

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www.everexam.org [APPSC 2016]:

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**A** : 12.1

**B** : 12.3

**C** : 12.6

**D** : 13

**Q** : In laminar flow, the shear stress distribution for a fluid flowing in between the parallel plates, both at rest is

[RPSC 2013]

**A** : Constant over the cross section

**B** : Parabolic distribution across the section

**C** : Zero at the mid plane and varies linearly with distance-from mid plane

**D** : Zero at plates and increase linearly to midpoint.

**Q** : In case of navigation rivers, the minimum free board provided is usually

[MPSC 2017]

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A : 30 cm to 45 cm

B : 1.2 cm to 1.5 m

C : 2.4 cm to 3.0 m

D : 1.0 m

Q : A fixed beam of length  $L$  is subjected to concentrated load  $W$  at mid-span, the collapse load is (plastic moment =  $M_p$ ; length of beam =  $L$ )

[MPPSC 2017]

A :  $6M_p/L$

B :  $8M_p/L$

C :  $16M_p/L$

D :  $4M_p/L$

Q : According to IS 456-2000, the minimum grade of concrete with maximum free water to cement ratio of 0.5 and minimum cement content of  $300 \text{ kg/m}^3$  is

[KPSC 2017]

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A : M 20

B : M 30

C : M 25

D : M 35

Q : The hydrograph of short duration can be converted into hydrograph of longer duration by

[KPSC 2015]

A : Unit hydrograph

B : Synthetic unit hydrograph

C : S-curved method

D : Flood routing

Q : A beam shall be deemed to be a deep beam when the ratio of effective span to overall depth is less than \_\_\_\_ and \_\_\_\_ for simply supported beam and cantilever beam, respectively.

[HPPSC 2016]

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A : 7, 2.6

B : 2.5, 2.0

C : 2.0, 2.5

D : 26, 7.0

**Q :** A smooth two-dimensional flat plate is exposed to a wind velocity of 70 km per hour. If laminar boundary layer exists upto a value of  $R_{ex}$  equal to  $3 \times 10^5$  and kinematic viscosity of air =  $1.49 \times 10^{-5} \text{ m}^2/\text{s}$ , what would be the maximum distance upto which laminar boundary persists?

[HPPSC 2016]

A : 0.063 m

B : 0.115 m

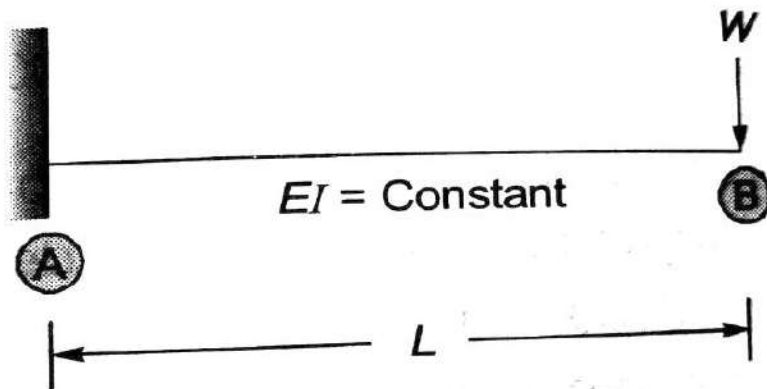
C : 0.229 m

D : 3.78 m

**Q :** For the following cantilever beam as shown in figure, the change in clockwise slope

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between (A) and (B) by moment area theorem will be



[UKPSC 2013]

**A :**  $\frac{wL^2}{4EI}$

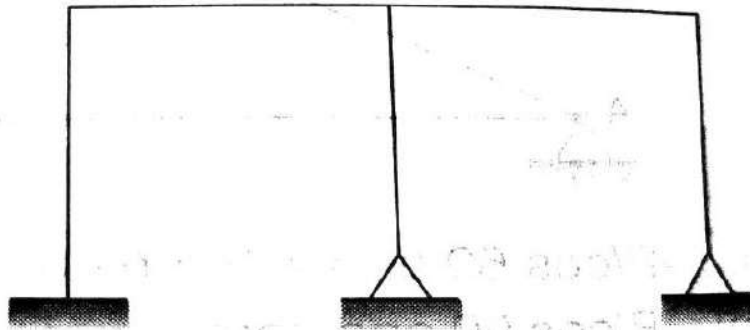
**B :**  $\frac{M}{EI}$

**C :**  $\frac{wL^2}{2EI}$

**D :** None of these

**Q :** The degree of static indeterminacy  $N_s$  the degree of kinematic indeterminacy,  $N_k$  for the plane frame as shown neglecting axial deformation are given by





[UKPSC 2013]

**A** :  $N_s=6, N_k=11$

**B** :  $N_s=4, N_k=6$

**C** :  $N_s=6, N_k=6$

**D** :  $N_s=4, N_k=4$

**Q** : The shape factor of an I-section is

[UKPSC 2013]

**A** : 1.04

**B** : 1.14

**C** : 1.7

**D** : 2

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