Q:) The discharge of water through a rectangular channel of width 8 m is 15 m^3/sec when the depth of flow of water is 1.2 m. The specific energy of the follwing water is

A : 1.324 m

B : 2.824 m

C : 3.124 m

D : 4.123 m

Q:) The S-curve is the summation of

A : Unit hydrograph

B : Total runoff hydrograph

C : Effective rainfall hyetograph

D : Base flow curve

Q:) The number of wire in Magnel cable varies between

A : 2 to 64

B : 10 to 100

C : 20 to 120

D : 8 to 78

Q:) The section factor of a rectangular channel section of width 'B' and depth of flow 'Y' is given by

A : $B(y)^{0.5}$

B : $B(y)^{1.5}$

C : $B(y)^{2.5}$

D : $B(y)^{3.5}$

Q:) The weir is always aligned at right angle to the direction of the river flow because

A : it ensure less length of weir

B : it gives good discharging capacity

C : it is economical

D : it ensure less length, good discharge and economical

Q:) The vertical depth of the centre of pressure, h for the inclined plane surface below the free surface of the liquid is

A : $\bar{x} - \frac{I_G sin\theta}{A}$

B : $\bar{x} + \frac{I_G sin^2\theta}{Ax^2}$

C : $\bar{x} + \frac{I_G sin^2\theta}{Ax}$

D : $\bar{x} - \frac{I_G sin^2\theta}{A}$

Q:) The force exerted by the fluid on a pipe bend for x direction, Rx is given a

A : $(P_1A_1)_x - (P_2A_2)_x - \int Q(V_{2x} - V_{1x})$

B : $(P_1A_1)_x + (P_2A_2)_x + \int Q(V_{2x} - V_{1x})$

C : $(P_1A_1)_x - (P_2A_2)_x - \int Q_2^2(V_{1x} - V_{2x})$

D : $(P_1A_1)_x + (P_2A_2)_x$

Q:) The path traced by a single particle of smoke issuing from a incense stick is a

A : stream line

B : flow line

C : path line

D : streak line

Q:) Which of the following has the highest infiltration capacity?

A : Rock out crop

B : Concrete pavement in airport

C : Grazed pasture

D : Forest land

Q:) Selection of gauge depends on

A : Type of sleeper and ballast

B : Points and crossing

C : Traffic volume and speed

D : Rail strength and rainfall

Q:) The number of sleepers required for constructing 500 m long railway track, using sleeper density of M + 5 and rail length of 10 m

A : 500

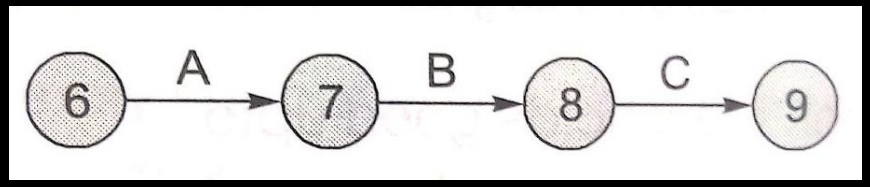
B : 750

C : 600

D : 650

Q:) If the activity A proceeds B, but succeeds C then network is

A :



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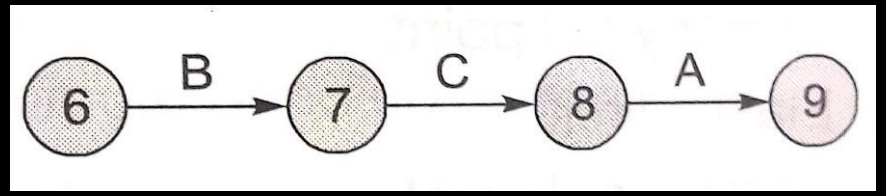

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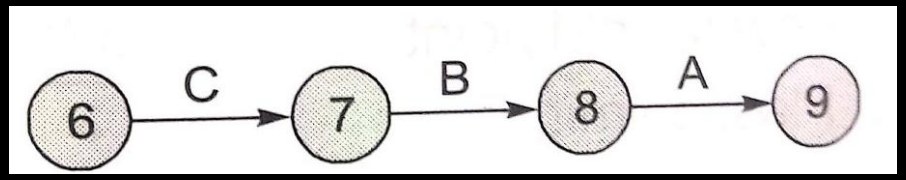

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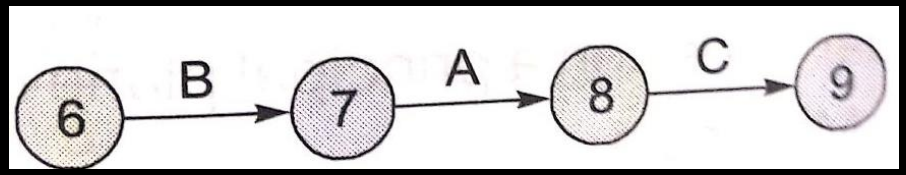


Q:) The carpet area of a residential building may be _____ of plinth area.

A : 15% to 30%

B : 30% to 40%

C : 40% to 50%

D : 50% to 65%

Q:) Select the number of type of construction according to fire resistance properties as per National building code of India

A : 4

B : 5

C : 6

D : 7

Q:) Shear stress on a principal plane is

A : Maximum

B : Zero

C : Minimum

D : Maximum or Minimum

Q:) The bending moment on a section of a beam is maximum where shearing force is

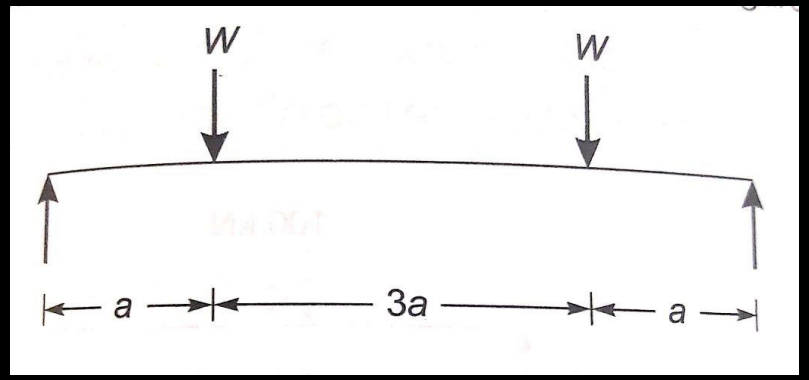
A : Zero (or) changing sign

B : Minimum

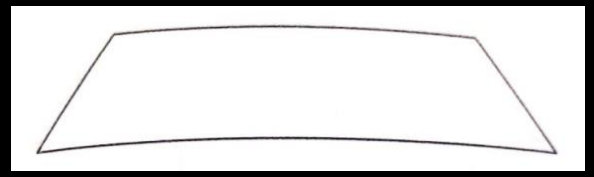
C : Maximum

D : Any value

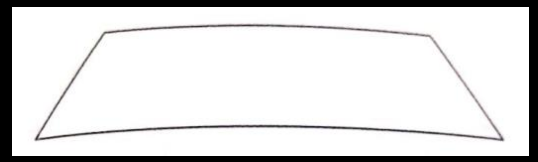
Q:) The bending moment diagram for the case shown in figure below will be as shown in figure.



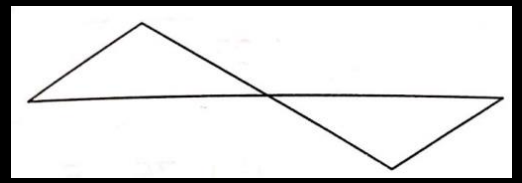
A :



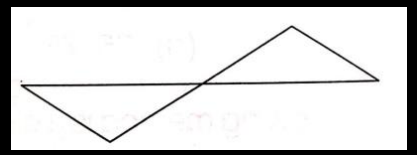
B :



C :



D :



Q:) Design of shaft made of brittle materials is based on

A : Guest's theory

B : St. Venant's theory

C : Rankine's theory

D : Von Mises theory

Q:) Which one of the following method is convenient for determining deflection of beam of non uniform flexural rigidity?

A : Macaulay's method

B : Conjugate beam method

C : Moment area method

D : Double integration method

Q:) If the normal cross-section A of a member is subjected to tensile force P, the resulting normal stress in an oblique plane inclined at angle "θ" to the transverse plane will be

A : $\frac{P}{A}sin^2\theta$

B : $\frac{P}{A}cos^2\theta$

C : $\frac{P}{2A}sin^2\theta$

D : $\frac{P}{2A}cos^2\theta$

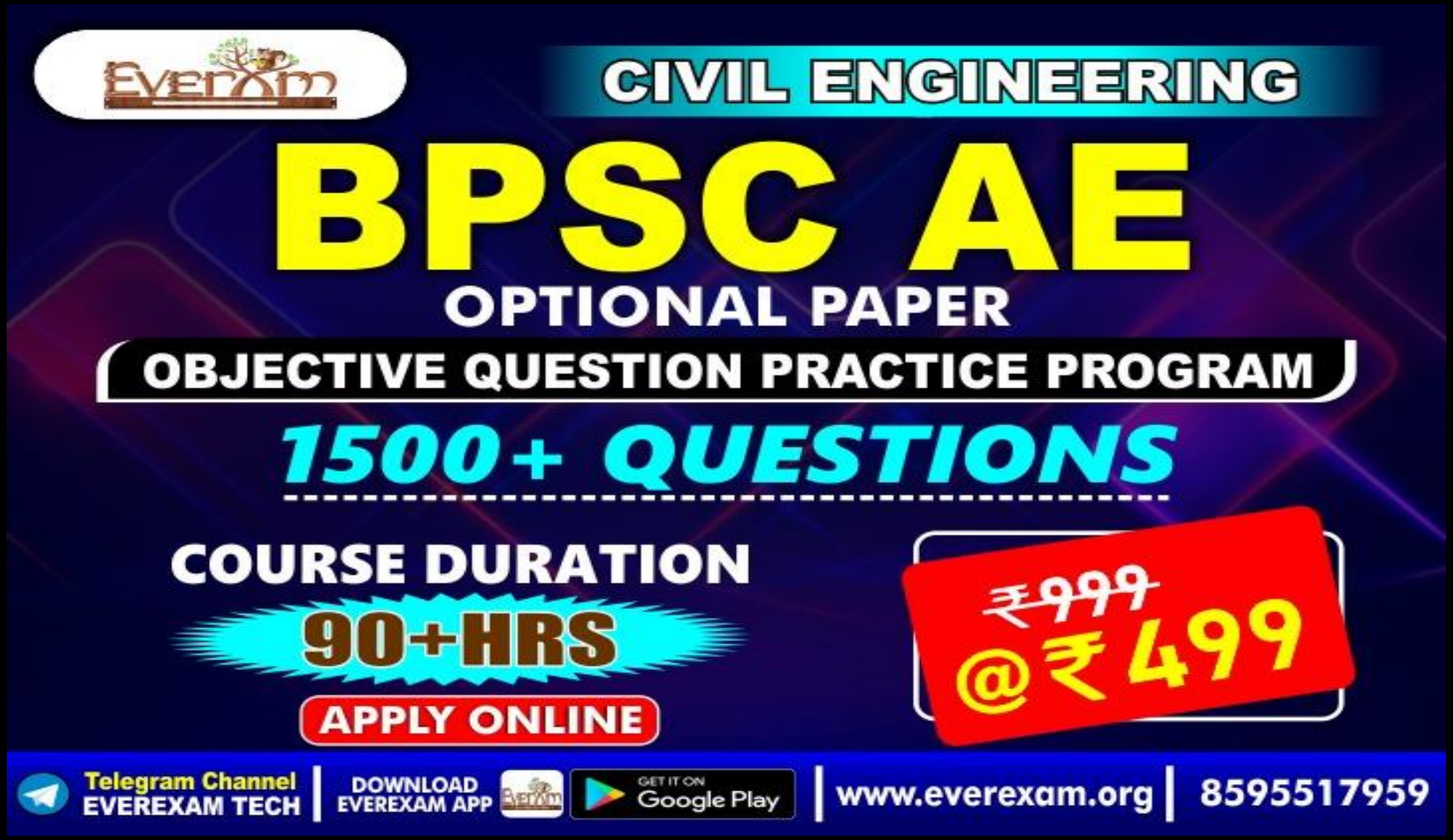
Q:) If a circular shaft is Subjected to both torque T and bending moment M. Then the equivalent bending moment M^e is given by

A : $M_e = \frac{M+\sqrt{M^2+T^2}}{2}$

B : $M_e = M + \sqrt{\frac{M^2+T^2}{2}}$

C : $M_e = M - \sqrt{\frac{M^2+T^2}{2}}$

D : $M_e = \frac{M-\sqrt{M^2+T^2}}{2}$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