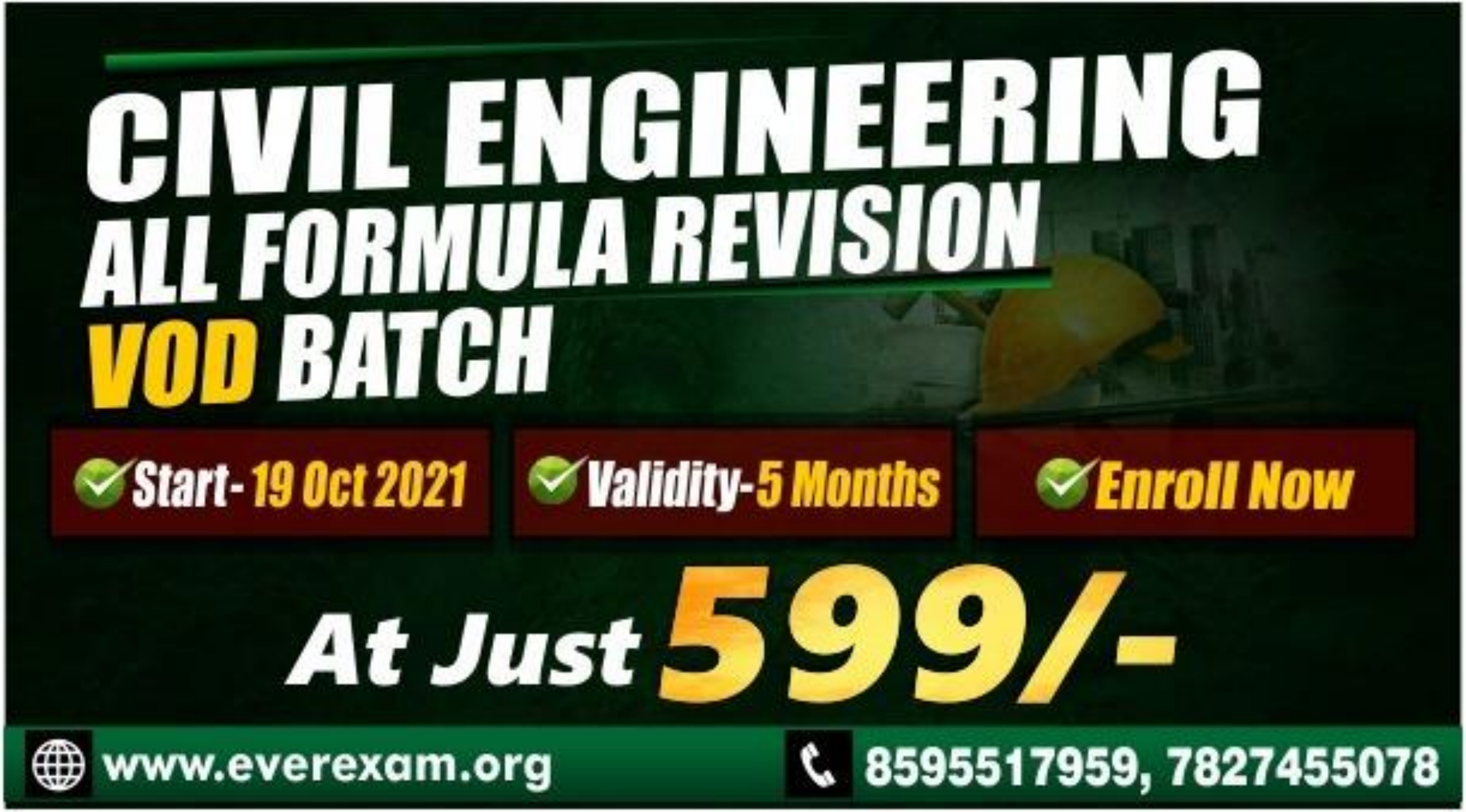
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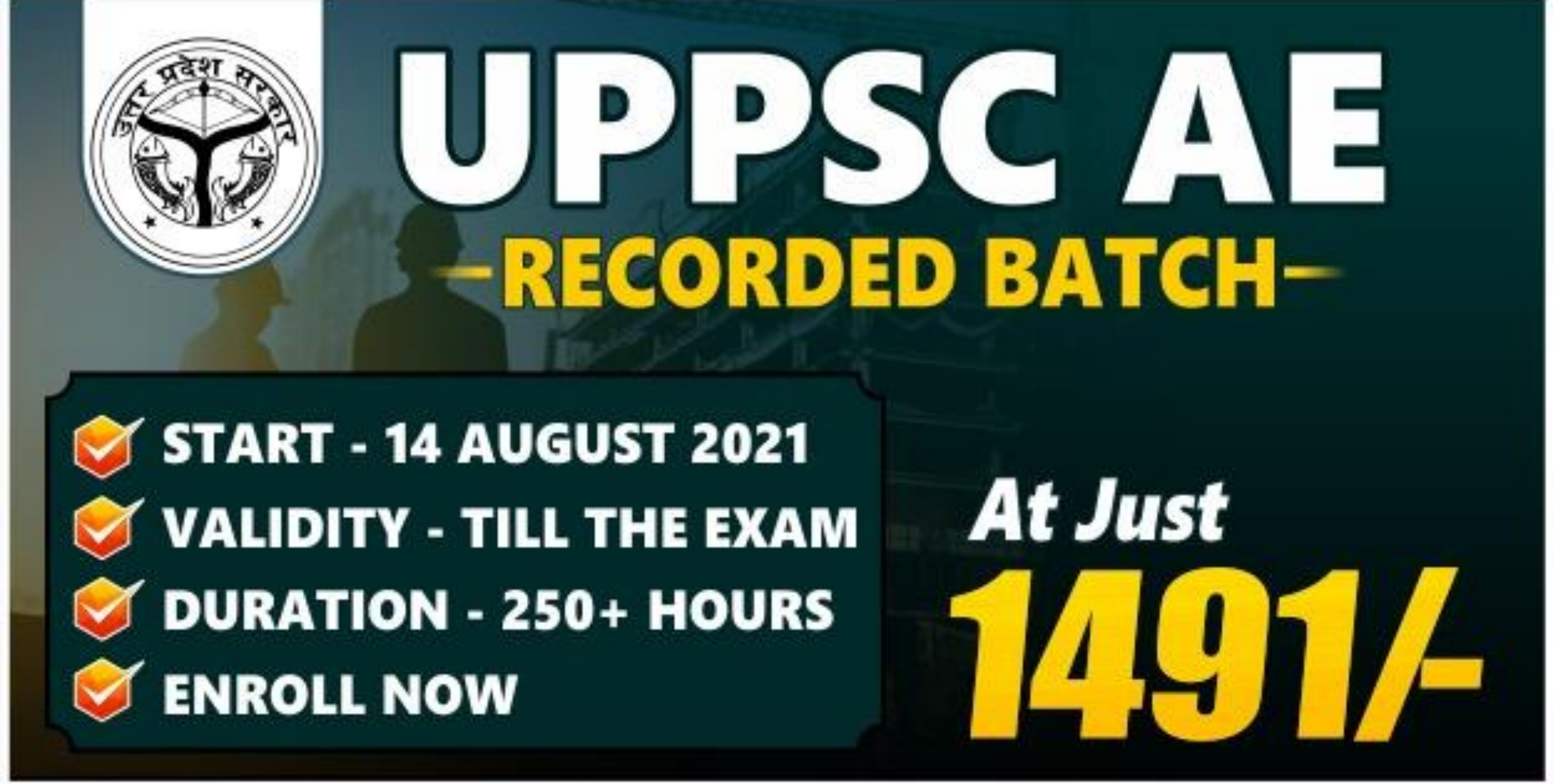
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TILL THE EXAM

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29 JULY 2021

VALIDITY
TILL THE EXAM

DURATION
400+HOURS

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Q :) The discharge passing over an ogee spillway, per unit length of its apex line is proportional to (where H is head over the apex of its crest)

A : H

B : H2

C : $H^{1/2}$

D : $H^{3/2}$

#6 UPPSC AE 2021 SOM Part-5

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Daily Class – 7:30 PM

Q :) Lysimeter is an instrument used to measure

A : Evaporation

B : Infiltration

C : Evapotranspiration

D : Transpiration

Q :) The relation between duty D in hectares/cumec, depth of water Δ In meter and base period B in days is given by

A : $\Delta = \frac{1.98\ B}{D}$

B : $\Delta = \frac{8.64\ B}{D}$

C : $\Delta = \frac{5.68\ B}{D}$

D : $\Delta = \frac{8.64\ B}{D}$

Q :) The use of unit hydrographs for estimating floods is generally limited to catchments of size less than

A : 5000 km^2

B : 500 Km^2

C : 10^6 kM^2

D : 5000 ha

Q :) According to Kholsa, to keep the structure safe against piping, exit gradient to be provided lies between

A : 0.10 and 0.15

B : 0.15 and 0.20

C : 0.20 and 0.26

D : 0.25 and 0.30

Q :) Lateral infiltration is the major drawback in the flowing type of infiltrometer as

A : Simple tube

B : Double ring

C : Sprinkling type

D : Rainfall simulator

#6 UPPSC AE 2021 SOM Part-5

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Q :) Isolated storm is represented in a hydrograph with

A : Single peak

B : Multiple peak

C : Complex peak

D : Without single peak

Q :) The deficiency of soil moisture through the earth surface is termed as

A : Rainfall

B : Runoff

C : Infiltration

D : Water table

Q :) In a CBR test, the load sustained by a remoulded soil specimen at 5 mm penetration is 120 kg. The CBR value of the soil will be

A : 9.2%

B : 7.3%

C : 5.84%

D : 2.4%

Q :) The type of transition curve that is generally provided on hill road is

A : Circular

B : Cubic parabola

C : Leminiscate

D : Spiral

Q :) It is a common practice to design a highway to accommodate the traffic volume corresponding to

A : Peak hour

B : 15 min peak period

C : 30^{th} hour

D : Average daily traffic

Q :) The safe speed on transition curve of B.G. track can be calculated by using formula

A : 4.35 $\sqrt{R - 67}$

B : 4.4 $\sqrt{R - 70}$

C : 3.65 $\sqrt{R - 6}$

D : None of the above

#6 UPPSC AE 2021 SOM Part-5

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Q :) The maximum limit of super elevation on B.G. track in India is

A : 76.2 mm

B : 83.2 mm

C : 101.6 mm

D : 165.1 mm

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Daily Class – 7:30 PM

Q :) As per Indian Road Congress (IRC) recommendation, minimum radius of horizontal curve on urban roads in plain terrain when the design speed is 60 km/h and super elevation is limited to 7% is

A : 120 m

B : 125 m

C : 130 m

D : 135 m

Q :) An irrigation channel designed by Lacey's theory has a mean velocity of 1.5 m/s. The silt factor is unity. The hydraulic mean radius will be

A : 2.5 m

B : 1.5 m

C : 5.625 m

D : 6.525 m

Q :) At a hydraulic jump, the depths at the two sides are 0.4 m and 1.4 m, the head loss in the jump is

A : 1.0 m

B : 0.9 m

C : 0.7 m

D : 0.45 m

Q :) The contact pressure Pc, typre pressure P are rigidity factor R are related by

A : $\frac{P}{P_C} = R$

B : $\frac{P_C}{P} = R$

C : $P \times P_c = R$

D : $R = \sqrt{(P \times P_C)}$

Q :) If modulus of elasticity of the subgrade is 25 MPa, then deflection at the surface of flexible pavement due to a wheel load of 40 kN and a tyre pressure of 0.6 MPa will be

A : 5.24 mm

B : 6.20 mm

C : 7.40 mm

D : 8.32 mm

Q :) The design speed of traffic lane is 70 kmph, what is the theoretical capacity per hour taking the total reaction time to be 2 seconds and average length of vehicle as 8 m?

A : 828

B : 728

C : 628

D : 528

Q :) Calculate the stopping sight distance, given that velocity v = 100 kmph and friction f = 0.10.

A : 464 m

B : 563 m

C : 860 m

D : 840 m

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