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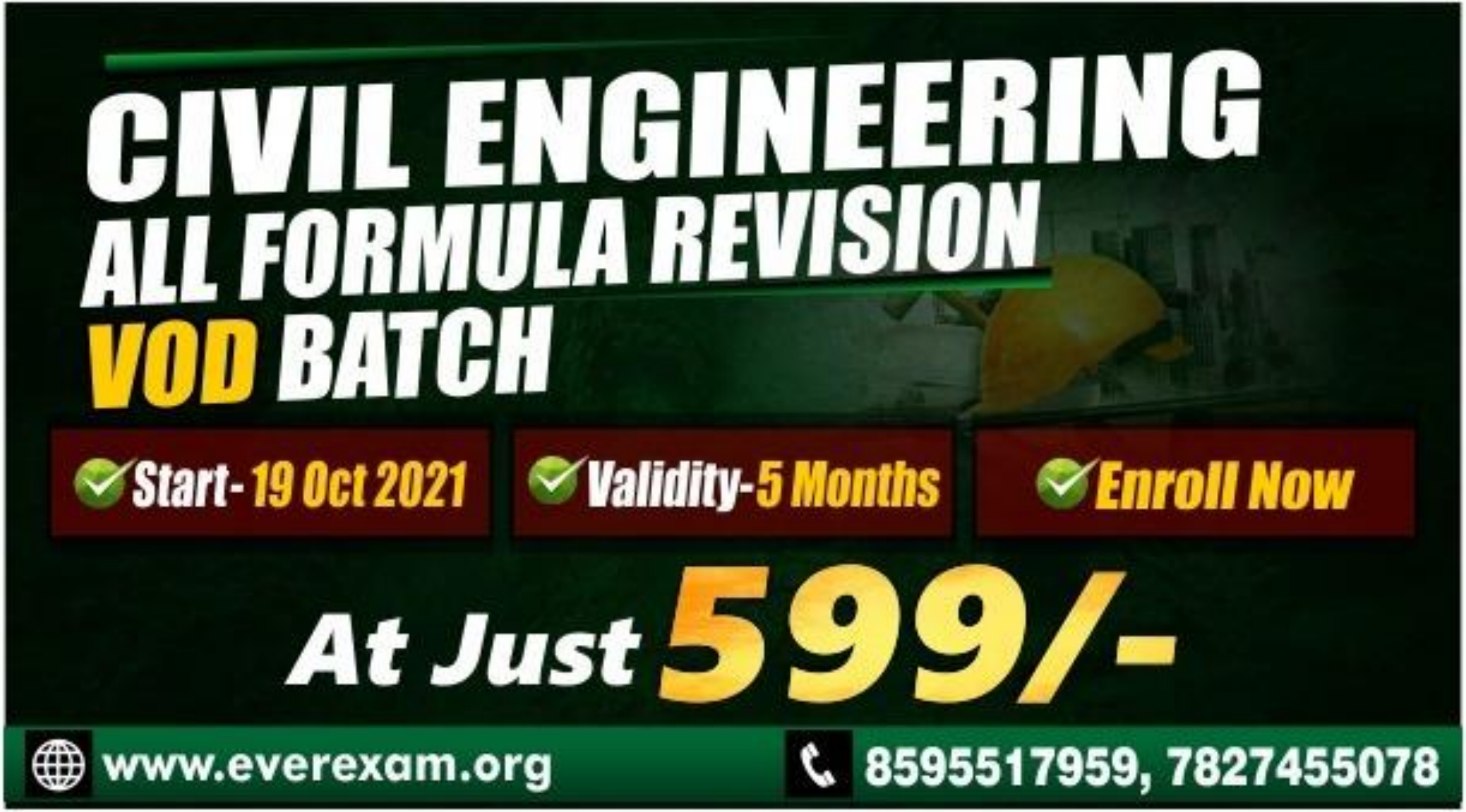
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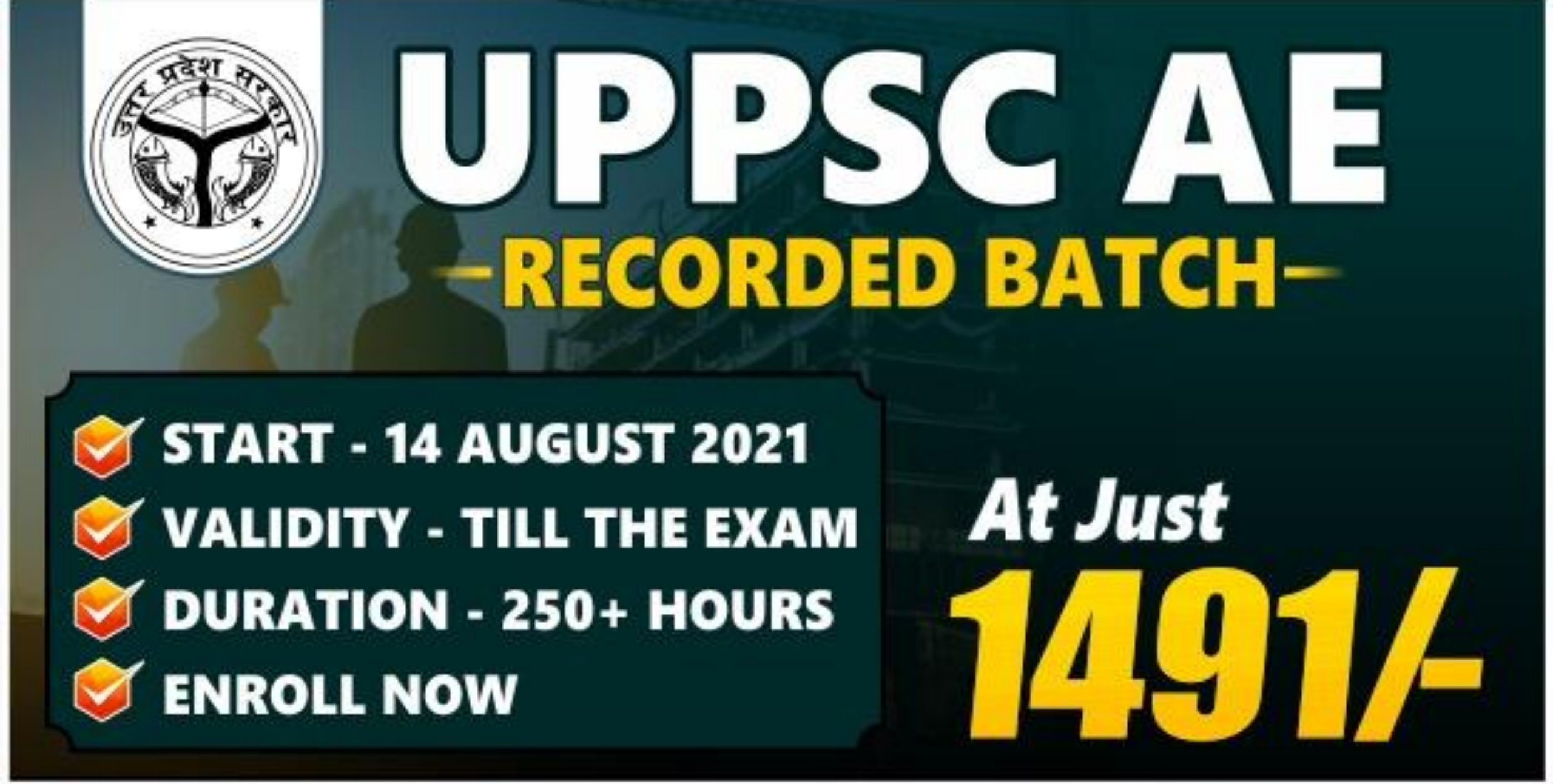
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Q :) The collapsible soil is associated with

A : Loess

B : Laterite soils

C : Black cotton

D : Dune sands

Q :) In which soil structure are the particles arranged more or less parallel to each other?

A : Single grained

B : Honeycomb

C : Flocculent

D : Dispersed

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Q :) A soil sample is having a specific gravity 2.60 and a void ratio of 0.78. The water content required to fully saturate, the soil at that void ratio would be

A : 10%

B : 30%

C : 50%

D : 70%

Q :) If a soil is dried beyond its shrinkage limit, this sample will show-

A : No volume change

B : Moderate volume change

C : Low volume change

D : Large volume change

Q :) In hydrometer analysis for a soil mass

A : Both meniscus correction and dispersing agent correction are additive

B : Both meniscus correction and dispersing agent correction are subtractive

C : Meniscus correction is additive and dispersing agent correction is subtractive

D : Meniscus correction is subtractive and dispersing agent correction is additive

Q :) Toughness index is defined as the ratio of

A : Plastic index to consistency index

B : Liquidity index to flow index

C : Consistency index to liquidity index

D : Plasticity index to flow index

Q :) Sand drains are used to

A : Reduce the settlement

B : Accelerate the consolidation

C : Increase the permeability

D : Transfer the load

Q :) A coarse-grained soil has a voids ratio (e = 0.75) and specific gravity (G = 2.75), the critical gradient at which quick sand condition occurs is:

A : 0.25

B : 0.50

C : 0.75

D : 1.0

Q :) Coulomb's theory of earth pressure is based on

A : The theory of elasticity

B : The theory of plasticity

C : Empirical rules

D : Wedge theory

Q :) A concentrated load of 500 kN acts on the surface of a soil. The ratio of vertical stresses at depths of 2m and 4m according to Boussinesq's theory will be:

A : 2

B : 4

C : 6

D : 8

Q :) The critical damping for a single degree of freedom is given by the expression:

A : $2\sqrt{km}$

B : $2\pi\sqrt{km}$

C : $2\pi\sqrt{\frac{k}{m}}$

D : $\pi\sqrt{\frac{k}{m}}$

K = stiffness coefficient

M = mass of machine and foundation

Q :) In the Engineering New record Formula for determining the safe carrying of a pile, the factor of safety used is:

A : 2.0

B : 2.5

C : 3.0

D : 6.0

Q :) The maximum differential settlement in isolated footings on sandy soil shall not exceed-

A : 40 mm

B : 100 mm

C : 65 mm

D : 25 mm

Q :) A good quality undisturbed soil sample is one which is obtained using a sampling tube having an area ratio of:

OR

The area ratio of thin wall sampler should not normally exceed more than:

A : 8%

B : 16%

C : 24%

D : 32%

Q :) Stream function:

A : Is defined only for incompressible flow

B : Is defined only for irrotational flow

C : Is defined when flow is continuous

D : Does not satisfy Laplace equation

Q :) Darcy-Weisbach friction factor ‘f’ is defined by the relation:

A : $f = \frac{1}{2V}\sqrt{\frac{hfgD}{L}}$

B : $f = \frac{1}{V}\sqrt{\frac{hfgD}{L}}$

C : $f = \frac{1}{V}\sqrt{\frac{3hfgD}{L}}$

D : $f = \frac{1}{V}\sqrt{\frac{2hfgD}{L}}$

Q :) The ratio of inertia force to the surface tension force is called:

A : Reynold's number

B : Froude number

C : Euler number

D : Weber number

Q :) For laminar flow, kinetic energy correction factor is :

A : 1

B : 1.33

C : 2

D : 2.7

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Q :) When the Mach number is more than 6, the flow is called:

A : Subsonic flow

B : Sonic flow

C : Supersonic flow

D : Hypersonic flow

Q :) Cavitation is primarily associated with which of the following fluid properties

A : Specific gravity

B : Surface tension

C : Viscosity

D : Vapour pressure

Q :) The property by which a metal resists impact load is called

A : Ductility

B : Toughness

C : Elasticity

D : Malleability

Q :) A copper rod of square cross section is fixed between two rigid supports and over which a steel rod of square cross-section is simply placed. If the temperature of the whole assembly is raise T°C, the stresses in steel and copper respectively are

A : Tensile and compressive

B : Zero and compressive

C : Compressive and tensile

D : Compressive and zero

Q :) In the bulk modulus of brass is 110 GPa and its Poisson's ratio is 0.30, then the elastic modulus (GPa) of this material is

A : 33

B : 367

C : 222

D : 132

Q :) A solid circular shaft of diameter d and length L is fixed at one end and free at the other end. A torque T is applied at the free end. The shear modulus of the material is G, the angle of twist at the free and is

A : 16 TL/$\pi d^4 G$

B : 32 TL/ $\pi d^4 G$

C : 64 TL/ $\pi d^4 G$

D : 128 TL/ $\pi d^4 G$

Q :) The conjunctive use of water in a basin means:

A : Combined use of water for irrigation and hydropower generation

B : Use of water by farmers cooperative. Depth of drain below the ground surface

C : Use of water for irrigating both Rabi and Kharif crops

D : Combined use of surface and ground water resources

Q :) The precipitation is measured un terms of

A : Intensity of pressure

B : Depth of water

C : Quantity of water

D : Volume of water

Q :) The basic assumptions of unit hydrograph theory are

A : Non-linear response and time invariance

B : Linear response and non-linear time variance

C : Linear response and time invariance

D : Linear response and linear time variance

Q :) Muskingum method for routing of flood is

A : Used for routing floods through reservoirs

B : A method of routing that uses continuity and momentum equations

C : A hydrologic method of routing floods through streams

D : One in which only energy equation is used

Q :) In case of gravity dam subjected to earthquake, the hydrodynamic pressure variation curve is generally taken to be

A : Elliptical

B : Parabolic

C : Triangular

D : Elliptical cum parabolic

Q :) When the water level, standing against an earthen embankment, suddenly falls down, then there is eminent risk of sliding failure to the

A : Upstream-slope

B : Downstream slope

C : Both (A) and (B)

D : None of the above

Q :) The stress carried by the king-post of a king-post roof truss is

A : Tensile

B : Compressive

C : Tensile and bending

D : Compressive and bending

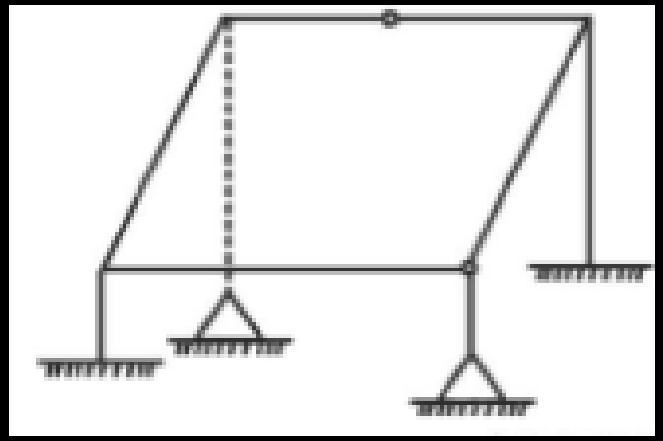
Q :) The statical indeterminacy for the given 3D frame is?

A : 8

B : 6

C : 9

D : 12



Q :) According to tresca yield locus is?

A : A rectangle

B : A hexagon

C : A ellipse

D : A circle

Q :) The method of plane tabling commonly used for establishing the instrument station is:

A : radiation method

B : Intersection method

C : Resection method

D : Traversing method

Q :) The bowditch method of adjustment of traverse is based on the assumption that?

A : $e_1 \propto \sqrt{\ell}$ and $e_2 \propto \frac{1}{\sqrt{\ell}}$

B : $e_1 \propto \sqrt{\ell}$ and $e_2 \propto \sqrt{\ell}$

C : $e_1 \propto \frac{1}{\sqrt{\ell}}$ and $e_2 \propto \sqrt{\ell}$

D : $e_1 \propto \frac{1}{\sqrt{\ell}}$ and $e_2 \propto \frac{1}{\sqrt{\ell}}$

Q :) Web crippling generally occurs at the point, were-

A : Deflection is maximum

B : Shearing stress is maximum

C : Bending stress is maximum

D : Concentrated load act

Q :) The flange spice in plate girders be placed preferably near about?

A : Maximum shear location

B : Maximum moment location

C : Minimum moment location

D : Minimum shear location

Q :) The maximum area of tension reinforcement in beams shall not exceed:

A : 0.15%

B : 1.0%

C : 1.5%

D : 4.0%

Q :) Given that d = effective depth, b = width and D = overall depth, the maximum area of compression reinforcement in a beam is

A : 0.01 bD

B : 0.10 bD

C : 0.12 bD

D : 0.04 bD

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Q :) The most economical type of RCC beam is

A : Singly reinforced rectangular beam

B : Singly reinforced T-beam

C : Doubly reinforced rectangular beam

D : Doubly reinforced T-beam

Q :) The volume of water released for a storage per unit in hydraulic head in the aquifer, per unit area of the aquifer is called as:

A : Transmissibility

B : Storativity

C : Specified yield

D : Specific retention

Q :) The design value of stopping sight distance for a two-lane, two-way traffic would be:-

A : Half the stopping sight distance

B : Equal to stopping sight distance

C : Twice the stopping sight distance

D : Three times the stopping sight distance

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