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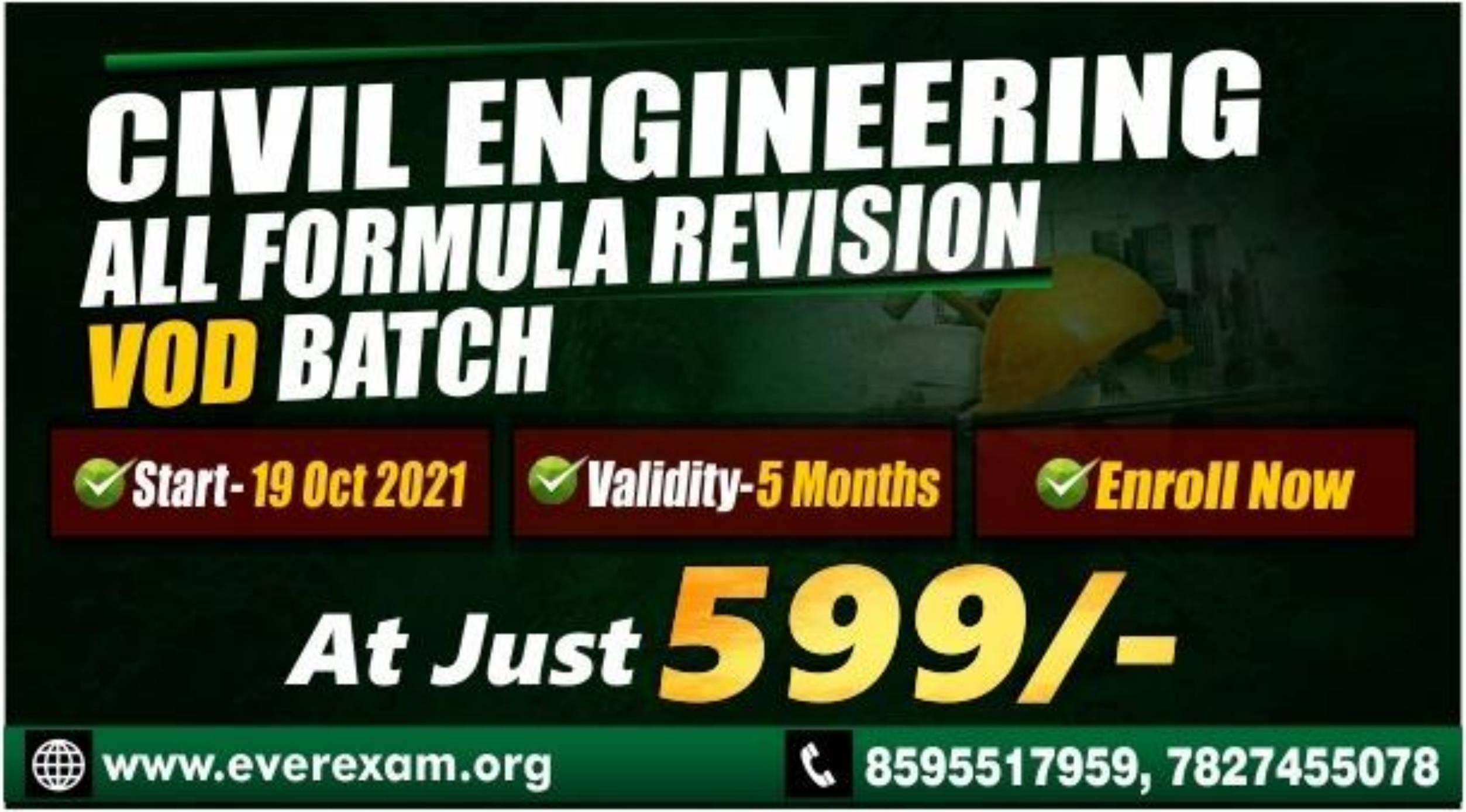
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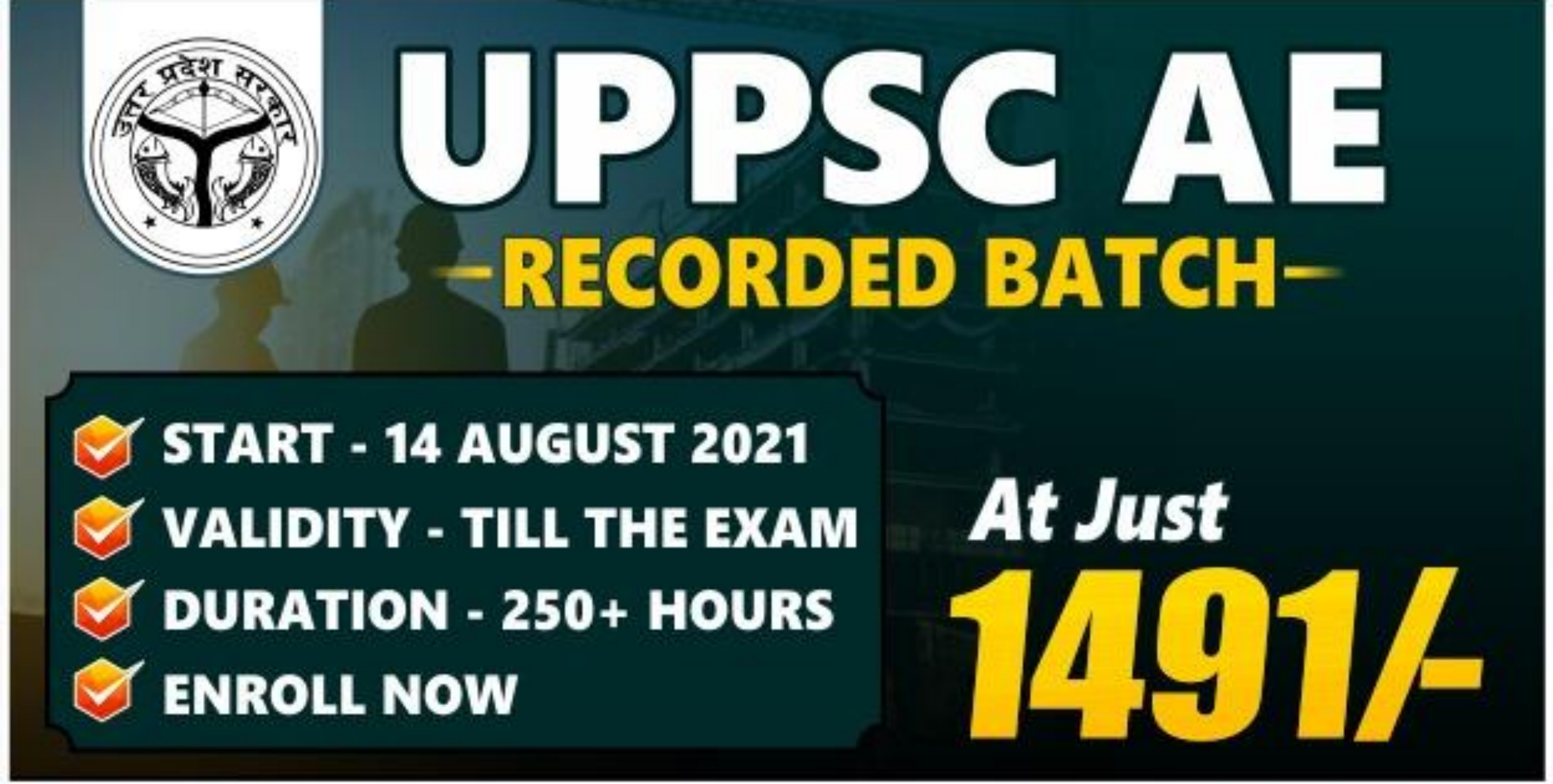
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Q :) In a thin cylindrical shell, longitudinal stress is _____(if p, d and t are internal pressure, internal diameter and thickness of the shell respectively).

A : p d/ 4t

B : p d / 2t

C : p d / (2t)

D : p d / (4t)

Q :) In a space frame, equations of equilibrium are_____

A : 3

B : 4

C : 5

D : 6

Q :) In _____ (a clay mineral), water can easily penetrate between the layers, pushing them apart and causing very large volume changes within the crystal itself.

A : Kaolinite

B : Montmorillonite

C : Illite

D L None of the above

Q :) In case pf coarse grained soils, the insitu state of compaction is expressed in terms of density index, defined as _____, where, emax, emin and e are void ratios of the soil in loose, densest and natural states.

A : (e – emin) / (emax – emin)

B : (emax – emin) / (e – emin)

C : (emax – emin) / (emax – e)

D : (emax – e) / (emax – emin)

Q :) Stoke’s law used in sedimentation analysis is valid for particle size of range

_____

A : 0.02 mm to 0.2 mm

B : 0.002 mm to 0.2 mm

C : 0.0002 mm to 0.2 mm

D : None of the above

Q :) There is no change in volume of soil, if water content reduces below _____

A : Liquid limit

B : Plastic limit

C : Shrinkage limit

D : None of the above

Q :) _____ is used to determine degree of expansion of a soil.

A : Cone penetration test

B : Differential free swell test

C : Liquid limit test

D : None of the above

Q :) Falling head permeameter is more suitable for_____

A : Soils of high permeability

B : Soils of low permeability

C : Both the cased as mentioned in (A) and (B)

D : None of the above

Q :) If a soil profile consists of a number of strata having different permeability and thickness, the equivalent permeability for flow parallel to strata is always _____ that for flow normal to the strata.

A : Smaller than

B : Greater than

C : Sometimes smaller otherwise greater

D : No such relationship exists.

Q :) When flanges of an I-section belong to Class 1 (Plastic) and web to Class 2 (Compact). The entire section is considered as _____

A : Class 1 (Plastic)

B : Class 2 (Compact)

C : Class 3 (Semi-compact)

D : Class 4 (Slender)

Q :) If half flange width to flange thickness ratio of a rolled I-section is less than 9.4 ε. Flanges belongs to _____

A : Class 1 (Plastic)

B : Class 2 (Compact)

C : Class 3 (Semi-compact)

D : Class 4 (slender)

Q :) If a member if a truss is always under tension. It's slenderness ratio should be less than _____.

A : 180

B : 250

C : 350

D : 400

Q :) If tensile resistance of a member is governed by ultimate strength of the material, recommended partial safety factor is_____

A : 1.10

B : 1.15

C : 1.20

D : 1.25

Q :) To determine the value of imperfection factor, the members subjected to axial compression are divided into _____

A : One buckling class

B : Two buckling class

C : Three buckling class

D : Four buckling class

Q :) When a compression member is restrained against translation and rotation and rotation at both ends, effective length of such member is_____

A : 0.65 times unsupported length of the member

B : 0.80 times unsupported length of the member

C : 1.0 times unsupported length of the member

D : 1.2 times unsupported length of the member

Q :) The distance between centre of fasteners should not be less than

A : 3.0 times gross diameter of the fastener

B : 2.5 times gross diameter of the fastener

C : 3.0 times nominal diameter of the fastener

D : 2.5 times nominal diameter of the fastener

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Q :) For fasteners of diameter larger than 24 mm. size of hole should be _____

A : Nominal diameter of fastener + 1

B : Nominal diameter of fastener + 2

C : Nominal diameter of fastener + 3

D : None of the above

Q :) If thickness of a plate is 9 mm. recommended minimum size of fillet weld for connecting of such plate is

_____

A : 3 mm

B : 5 mm

C : 6 mm

D : 8 mm

Q :) If required size of weld is less than minimum size of weld. In such case

_____

A : required size of weld should be used

B : Minimum size of the weld should be used

C : Intermittent weld of minimum size should be used

D : None of the above

Q :) Area of a map is measured with the help of _____

A : Current meter

B : Paragraph

C “ Planimeter

D : Box sextant

Q :) _____ curves are given to obtain a gradual change of gradient

A : Transition

B : Combined

C : Vertical

D : None of the above

Q :) Horizontal distance between two consecutive contours is called as _____

A : Contour interval

B : Horizontal equivalent

C : Contour gap

D : None of the above

Q :) When curvature of earth is taken into account. It is called _____

A : Plane surveying

B : Hydrography surveying

C : Geodetic surveying

D : None of the above

Q :) A watershed has an area of 300 ha. Due to a 10 cm rainfall event over the watershed a stream flow is genetrated and at the outet of the watershed it lasts for 10 hours. Assuming a runoff / rainfall ratio of 0.2 for this event. The average stream flow rate at the outlet in this period of 10 hours is_____

A : 1.33 m^3/s

B : 16.7 m^3/s

C : 100 m^3/minute

D : 60.000 m^3/h

Q :) Rainfall of intensity of 20 mm/h occurred over a watershed of area 100 ha for a duration of 6 hours. Measured direct runoff volume in the stream draining the watershed was found to be 30.000 m3. The precipitation not available to runoff in this case is _____

A : 9 cm

B : 3 cm

C : 17.5 cm

D : 5 cm

Q :) Orographic precipitation occurs due to air masses being lifted to higher altitude by _____

A : The density difference if air masses

B : A frontal action

C : The presence of mountain barriers

D : Extra tropical cyclones

Q :) When specific information about the density of snowfall is not available. The water equivalent of snowfall is taken as

_____

A : 50%

B : 30%

C 10%

D : 90%

Q :) The nominal maximum size of course aggregate should be as large as possible, but in no case greater than _____

A : ½ of minimum thickness of the member

B : 1/3 of minimum thickness of the member

C : ¼ of minimum thickness of the member

D : None of the above

Q :) The pH value of water (which is suitable for concrete mic and its curing) should not be less than _____

A : 6.0

B : 6.5

C : 7.0

D : 7.5

Q :) Average 28 days compressive strength of at least three 150 mm concrete cubes prepared with water proposed to be sued should not be less than _____ of the average of strength of three similar concrete cubes prepared with distilled water.

A : 100%

B : 95%

C : 90%

D : None of the above

Q :) The concrete to be used in lightly reinforced sections in slabs, beams, walls and columns should have slump of

_____

A : 1oo to 150 mm

B : 75 to 100 mm

C : 50 to 100 mm

D : 25 to 75 mm

Q :) Nominal mix can be used for concrete of _____

A : M20 or lower

B : M25 or lower

C : M30 or lower

D L None of the above

Q :) Minimum period before striking of formwork from soffit of slab (Props to be re-fixed immediately after removal of formwork), is_____

A : 3 days

B : 5 days

C : 7 days

D : 10 days

Q :) During placing of concrete, the minimum permissible free fall of concrete may be taken as _____

A : 0.9 m

B : 1.2 m

C : 1.5 m

D : None of the above

Q :) In case of concrete, where mineral admixtures or blended cements are used, it is recommended that minimum curing period should be extended to_____

A : 7 days

B : 10 days

C : 12 days

D : 14 days

Q :) In test result of a concrete sample, individual variation of a specimen should not be more than _____ of the average value.

A : ±8%

B : ±10%

C : ±12%

D : ±15%

Q :) Concrete in a member represented by a core test shall be considered acceptable, if the average equivalent curve strength of core is equal to at least _____ of the cube strength of the grade of concrete specified for the corresponding age.

A : 85%

B : 90%

C : 95%

D : None of the above

Q :) If the main reinforcement of the slab is parallel to the T/L-beam, transverse reinforcement shall be required, which should not be less than _____ of the main reinforcement at mid span of the slab.

A : 80%

B : 70%

C : 60%

D : None of the above

Q :) In case of continuous beams, distance between points of zero moments may be taken as _____ times the effective span.

A : 0.7

B : 0.8

C : 0.85

D : None of the above

Q :) For deformed bars conforming to IS : 1786, the bond strength values of plain bars should be increased by _____

A : 80%

B : 70%

C : 60%

D : None of the above

Q :) For curtailment of reinforcement except at simple support or end of cantilever, the reinforcement should be extended beyond the point at which it is no longer required to resist flexure, for a distance equal to _____

A : Effective depth of the member

B : 12 times the bar diameter

C : Whichever is greater from (A) & (B)

D : Whichever is smaller from (A) & (B)

Q :) In case of columns of minimum dimension of 200 mm or under, where reinforcing bar diameter do not exceed 12 mm, a nominal cover of _____ may be used.

A : 25 mm

B : 30 mm

C : 35 mm

D : 40 mm

Q :) Normally structures exceeding _____ In length are designed with one or more expansion joints.

A : 30 m

B : 35 m

C : 40 m

D : 45 m

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Q :) Thickness of flat slab should not be less than _____

A : 80 mm

B : 10 mm

C : 115 mm

D : 125 mm

Q :) In members, where cracking in the tensile zone is harmful either because they are exposed to the effects of weather or continuously exposed to moisture or in soil contact or ground water, an upper limit of _____ is suggested for maximum width of cracks.

A : 0.20 mm

B : 0.15 mm

C : 0.10 mm

D : None of the above

Q :) For limit state of serviceability, during combination of dead load, Imposed load and wind load, partial safety factor recommended on wind load is _____

A : 1.5

B : 1.2

C : 1.0

D : 0.8

Q :) During redistribution of moments in continuous beams and frames, the elastic moment at any section in a member due to a particular combination of loads should not be reduced by more than _____ of the numerically largest moment given anywhere by the elastic maximum moment diagram for the particular member, covering all appropriate combination of loads.

A : 30%

B : 20%

C : 10%

D : None of the above

Q :) In a bar of tapering section, elongation due to self weight is _____

(Where, W, L, A & E are weight, length, cross-sectional area and modulus of elasticity of bar material respectively)

A : WL/(AE)

B : WL(2AE)

C : WL/(3AE)

D : None of the above

Q :) Temperature stresses induce,

_____

A : When the structure is determinate and subjected to temperature variation.

B : In a member, when the member in subjected to temperature variation and also free to elongate.

C : In a member, when the member is subjected to temperature variation and also not free to elongate.

D : None of the above

Q :) If p, E and 1/m are stress, modulus of elasticity and Poisson's ratio respectively, volumetric strain is

_____

A : p/E(1 + 1/m)

B : p/E(1-1/m)

C : p/E (1 + 2/m)

D : p/E (1 – 2/m)

Q :) A plane of maximum shearing stress is making an angle of _____

A : 30 degree with a principal plane.

B : 45 degree with a principal plane

C : 60 degree with a principal plane.

D : None of the above

Q :) On a principal plane, _____

A : Shear stress is maximum

B : Shear stress is minimum

C : Shear stress is zero

D : None of the above

Q :) In a segment of pile, distance of hooks should be at _____ from ends, so that induced maximum moment du to self weight will be minimum.

A : 0.202 times of span

B : 0.205 times of span

C : 0.207 times of span

D : None of the above

Q :) Moment of inertia of a triangle section is minimum about its _____

A : Base

B : Top corner

C : Centroid

D : None of the above

Q :) Fixed end of a real beam changes into _____

A : Hinged end of conjugate beam

B : Roller end of conjugate beam

C : Free end of conjugate beam

D : None of the above

Q :) A concrete mixture is specified by

A : Speed of mixer drum

B : Volume of concrete mix discharge per batch

C : The volume of mixing drum

D L Horse power of its prime mover

Q :) When an irrigation canal crosses the drain such that canal bed level is sufficiently above HFL of the drain, structure provided to take the canal a cross the drain is

A : Super passage

B : Aqueduct

C : Syphon

D : Inlate outlet

Q :) Co-ordinates of stations A and B are (30 m north, 15 m East) and (60 m North, 55 m east) respectively, then length of line AB will

A : 50.000 m

B : 26.458 m

C : 114.018

D : 51.478 m

Q :) Degree of workability required for mass concrete, lightly reinforced sections, hand placed pavements and canal lining is

A : None of these

B : High (Slump 100 to 150 mm)

C : Medium (Slump 50 to 100 mm)

D : Low (Slump 25 to 75 mm)

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Q :) Super passage is the cross drainage structure provided when-

A : Canal bed level is just above HFL of the natural drain

B : Canal bed level and drain bed level are approximately ay same level

C : Natural bed level of a drain is sufficiently above FSL of the canal

D : Canal flow is to be flumed for measurement of discharge

Q :) At a curved section of road not provided with super elevation, deterioration of road is most likely to start from

A : Anywhere on the road

B : Outer edge of the road

C : Inner edge of the road

D : Centre of the road

Q :) Cross sectional area at one end of earthwork is 7 sq. m and at other end of it is 9 Sq.m, if distance between two end sections is 6 m. Area of mid section is 8.5 Sq.m, then volume of earthwork using prismoidal formula will be

A : 50.5 Cu.m

B : 50 Cu.m

C : 49 Cu.m

D : 49.5 Cu.m

Q :) Which of the following is not a function of a berm of an earthen dam

A : To intercept seepage flow and divert it to surface drains

B : To protect downstream casing zone by reducing velocity of rain water flow

C : To provide sufficient cover to phreatic line

D : To provide passage for movement of vehocles on the body of dam

Q :) If net rotation of a fluid element of a flow is zero, it is called

A : Uniform flow

B : Unsteady flor

C : Steady flow

D : Irrotational flow

Q :) The process of shooting dry concrete mix from pneumatic gun with a water hose mounted immediately underneath the gun nozzle is called as

A : Slip forming

B : Shotcreting

C : Gunnitting

D : Cole grouting

Q :) Number of cement bags required to produce 20 Cu.m of compacted concrete with a concrete mix having cement factor 5 is

A : 25 bags

B : 4 bags

C : 100 bags

D : 15 bags

Q :) The set of nearly parallel and equally spaced contour lines represent

A : Plane surface

B : None of these

C : Undulating Surface

D : Levelled surface

Q :) When hard strata is available at relatively more depth, the foundation may be provided in the form of-------

A : Sheet piles

B : Sand piles

C : Friction piles

D : End bearing piles

Q :) Field test to judge toughness of the burnt bricks is

A : Any of these

B : Striking two bricks against each other and listening the sound

C : Dropping it on ground from height of around 1 m.

D : Scratching the surface if brick with nail

Q :) Lateral earth pressure exerted by the soil when the retaining wall moves in to the soil is known as

A : Total earth pressure

B : Active earth pressure

C : Passive earth pressure

D : Earth pressure at rest

Q :) If project irrigates 5000 Ha. Of crops having field duty of 1250 Ha./Cu.m. If the efficiency of system is assumed to be 80% then design discharge will be

A : 6.25 Cumecs

B : 5 Cumecs

C : 6 Cumecs

D : 4 Cumecs

Q :) If size gradation curve matches with the specified size gradation curve, the soil is

A : None of these

B : Finer than the specified gradation

C : Of the specified gradation

D : Coarser than the specified gradation

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Q :) Critical velocity of the canal flow is

A : Is the velocity at which no scoring and silting will occur

B : Is the minimum velocity of flow required to maintain desired discharge

C : The velocity which maximized the flow carrying capacity of a canal cross section

D : None of statement is correct

Q :) When a fluid flows through a tube of varying cross section

A : Pressure head increases with decrease in cross sectional area

B : If cross-section is reduced velocity of fluid increases

C : Velocity do not depend on cross sectional area of the tube

D : If cross section increases velocity of fluid increases

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Q :) The carry over factor for a prismatic member whose far end is fixed is

A : 1

B : 0

C : 0.75

D : 0.5

Q :) The maximum bending moment for a simply supported beam of span 4 m, carrying central point load of 20 kN and uniformly distributed load of 10 kN/m is equal to

A : 20 kN.m

B : 10 kN.m

C : 40 kN.m

D : 30 kN.m

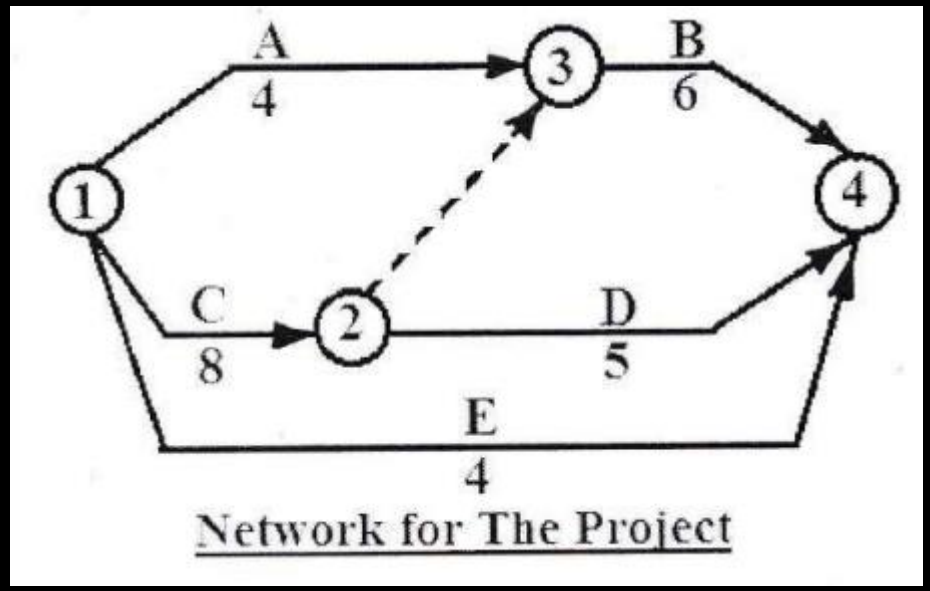
Q :) Refer the network for a small project given herewith. Figures below activity labels indicate activity duration in weeks. Then total float for the activity “A” is

A : 10 weeks

B : Zero weeks

C : Zero weeks

D : 3 weeks



Network for The Project

Q :) The path of a water particle through a saturated soil mass is called as

A : Hydraulic gradient

B : Equipotential line

C : Flow line

D : Any of these

Q :) Casagrande's apparatus is used to determine which one of the atterberg's limit of the soil

A : Plastic limit

B : Liquid limit

C : Shrinkage limit

D : Any of these

Q :) If book value of the equipment at the end of fourth year is Rs. 6,60,000/- and end of sixth year is Rs. 4,90,000/- If estimated life of equipment is 10 years, then salvage value of the equipment at the end pf 10 years using general straight line method of evaluation of depreciation is

A : Rs. 2,00,000/-

B : Rs. 2,50,000/-

C : Rs. 1,00,000/-

D : Rs. 1,50,000/-

Q :) The earth's water circulatory system is known as

A : None of these

B : Precipitation cycle

C : Ecological cycle

D : Hydrological cycle

Q :) The property of soil contributing towards settlement of earth structure is

A : Both (a) and (b)

B : None of (a) or (b)

C : Compaction

D : Consolidation

Q :) The work order for starting of work to the contractor after accepting of tender is issued only after payment of

A : None of these

B : Liquidated damages

C : Earnest money

D : Security deposit

Q :) The most desirable method of calculating mean rainfall in a catchment area is

A : Isohyetal method

B : Arthmatic mean method

C : Unit hydrograph method

D : Thissen polygon method

Q :) When nominal shear stress in a reinforced concrete section exceeds shear strength of concrete, shear reinforcement shall be provided in the form of ---------

A : Bent up bars and stirrups

B : Either (a) or (b)

C : Neither (a) nor (b)

D : Vertical or inclined stirrups

Q :) Which of the following point shall be given more weightage while selecting site for a major bridge with length more than 300m.

A : None of these

B : Alignment of approaches

C : Good site for bridge proper

D : Both alignment of approaches and good bridge site

Q :) A soil has specific gravity of 2.5, water content of 10%, voids ratio of 0.25, then degree of saturation is

A : 1%

B : None of these

C : 100%

D : 62.5%

Q :) A differential manometer is used to measure

A : Velocity of liquid

B : Pressure difference between two points in a pipe

C : Atmospheric pressure

D : Pressure at a point in a pipe

Q :) For a transition curve radius……

A : Is constant

B : None of these

C : Changes suddenly from infinity to some finite value

D : Changes gradually from infinity to some finite value

Q :) The back sight taken with staff held inverted on bench mark of ‘RL’ 500 m above the line of sight is 1.750 m, then ‘RL’ or elevation of plane of collimition will be

A : 498.25 m

B : 501.750 m

C : Any of these

D : None of these

Q :) For a reservoir FRL, MWL and TBL are 80 m, 83 m, and 85 m respectively, then maximum flood lift will be

A : None of these

B : 2 m

C : 5 m

D : 3 m

Q :) To find out differential elevation between two stations with an electronic total station (ETS) and a prism reflector, one must invariably provide to an electronic total station (ETS)-

A : All of these

B : Elevation of station occupied by the ETS

C : Height of ETS axis above station occupied

D : Height of prism above the object station

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Q :) Minimum cement content recommended by IS 456 for reinforced cement concrete works under mild exposure condition is

A : 300 kg/Cu.m

B : 320 kg/Cu.m

C : 360 kg/Cu.m

D : 340 kg/Cu.m

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Q :) What will be length on map plotted to scale of 1 : 25000, the line showing 3 km long irrigation canal?

A : 60 mm

B : 240 mm

C : None of these

D : 120 mm

Q :) The speedy and cost effective method of excavating long tunnel in hard and compact rock is

A : Needle beam method

B : Compressed air method

C : Shield method

D : Tunnel boring machine

Q :) “Wilting point” if plant growth is a term related with------

A : Depth of roots in the soil

B : Temperature of the plant

C : Water required for growth of plant

D : Moisture content in roof zone of plants

Q :) The nature of force developed in a member running inclined from centre of a tie beam to principal rafter of a king post truss subjected to vertical downward loads at all nodes on principal rafter is

A : Tensile

B : Compressive

C : Shear

D : Torsional

Q :) The apparatus used to test the fineness of cement is

A : Vicat’s apparatus

B : Le chatelier’s apparatus

C : Any of these

D : Blain’s air permeability apparatus

Q :) Moment of inertia of a rectangular section about an axis passing through its CG and parallel to its breadth is------- its moment of inertia a about an axis passing through its CG and parallel o its depth

A : Less than

B : Greater than

C : None of these

D : Same as

Q :) The -------- method of plane tabling is used to locate distant and inaccessible details

A : Radiation

B : Traversing

C : Intersection

D : Resection

Q :) Hydraulic mean depth for a pipe flow through 10 cm diameter pipe, will be

A : 2.5 cm

B : 3.33 cm

C : 6.66 cm

D : 5 cm

Q :) At vena contract

A : None of these

B : The theoretical velocity is less than actual velocity

C : The actual velocity is less than theoretical velocity

D : The actual velocity is same as theoretical velocity

Q :) Under natural condition of flow on polluted rivers would contain

A : More dissolved oxygen in summer than in winter

B : Least dissolved oxygen during the floods

C : Less dissolved oxygen in summer than in winter

D : More or less same amount of dissolved oxygen in summer and winter

Q :) Back bearing of unaffected line ‘CD’ of an anticlockwise traverse ABCDE is 241°30’. Corrected interiorly included angle ‘D’ is 75°36’. Then fore B earing of line ‘DE’ will be

A : None of (A) or (B)

B : 165°30’

C : 317°06’

D : Any of (A) or (B)

Q :) “Surge tank” in hydro power plant---
--

A : Is provided to trap sediments from penstock

B : Is designed to store water flowing from tail race channel

C : Is provided at downstream of the turbine so as to control ‘surge’ during its operation

D : Is designed for protecting the system from water hammer effect at upstream of turbine

Q :) For a soil unit cohesion is 10 kN/Sq.m, unit weight is 18 kN/Cu.m and Angle of internal friction Is 45 degrees. Its shear strength will be ----------

A : 0.56 kN/Sq.m

B : 28 kN/Sq.m

C : 8 kN/Sq.m

D : 180 kN/Sq.m

Q :) Loss in the value of property due to its use, wear and tear, obsolescence etc. is called as

A : Salvage value

B : Book value

C : Scrap value

D : Depreciation

Q :) Quarrying got building stones in hard and compact rocs is usually carried out by

A : Wedging method

B : Blasting technique

C : Channelizing machines

D : None of these

Q :) If actual neutral axis of a singly reinforced concrete section is greater than its critical neutral axis, than such a section is said to be

A : Over reinforced

B : under reinforced

C : None of these

D : Balanced

Q :) If delta for a crop “A” is 60 cm and that for a crop “B” is 75 cm then, ratio of duty of crop A” to crop “B” will be

A : 0.75

B : 1.5

C : 0.8

D : 1.25

Q :) if the resultant of the two forces has same magnitude as of the two forces, than angle between those two forces will be

A : 120 degrees

B : 60 degrees

C : 30 degrees

D : 90 degrees

Q :) Bearing stiffener is provided at

A : At sections of concentrated loads

B : The support sections

C : None of (A) and (B)

D : Both of (A) and (B)

Q :) Compressive strength developed by concrete made with ordinary Portland cement at the third day after casting is about --------% of its 28 days compressive strength

A : 85

B : 70

C : 37

D : None of these

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