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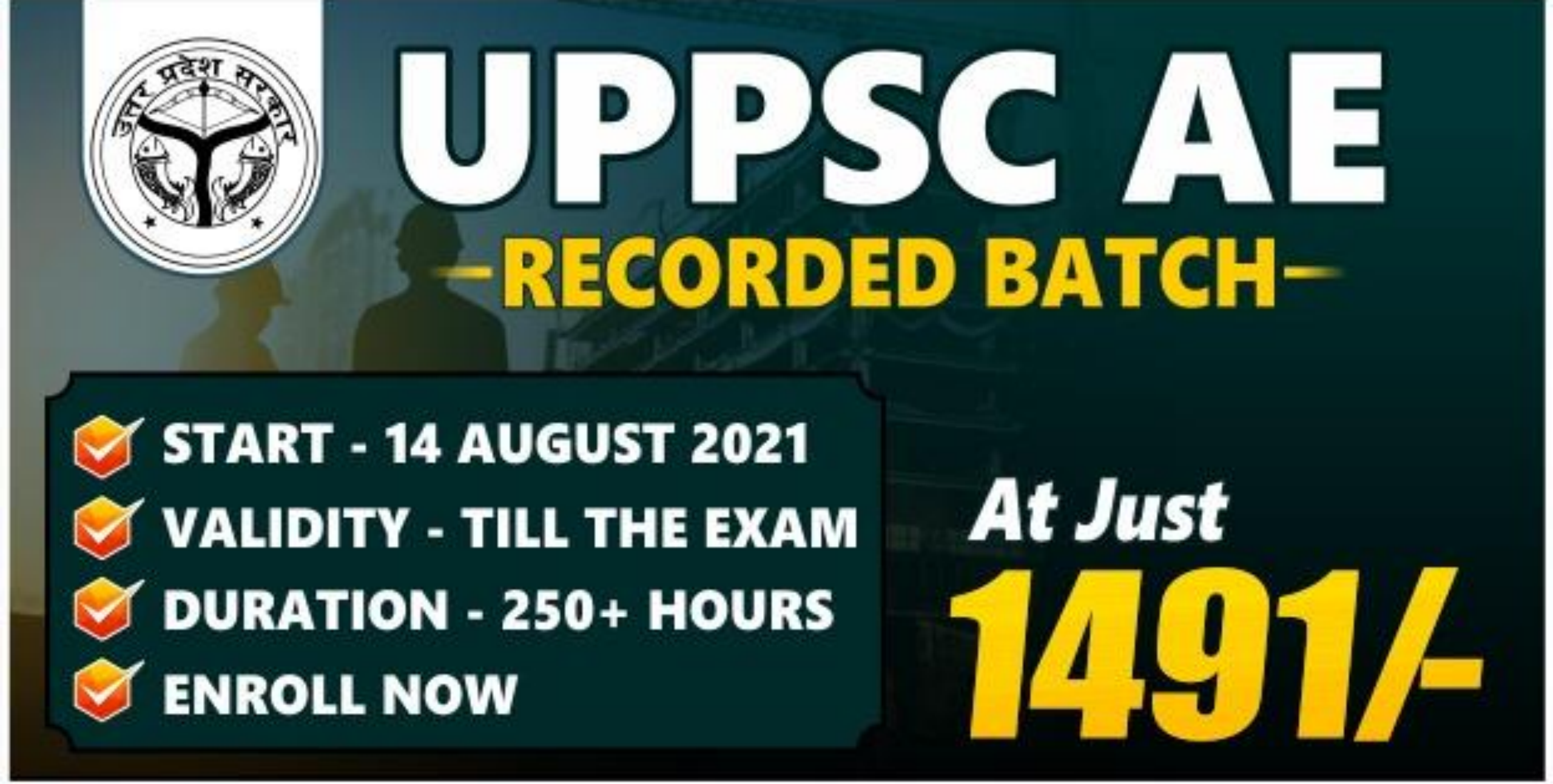
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Q :) Granite is a

A : Sedimentary rock

B : Metamorphic rock

C : Igneous rock

D : None of these

Q :) The compressive strength of sand stone is

A : 800 kg/cm^2

B : 650 kg/cm^2

C : 550 kg/cm^2

D : 400 kg/cm^2

Q :) Excess of silica in brick earth results in

A : Very heavy brick

B : Loss of cohesion

C : Very light brick

D : None of these

Q :) Ultrasonic pulse velocity test to measure the strength of concrete is

I. Used to obtain estimate of concrete strength of finished concrete elements.

II. Used to measure strength of wet concrete

III. A non-destructive test

Which of the above statement are correct?

A : I and III

B : II and III

C : I and II

D : I, II and III

Q :) The volume of cement in one standard bag is-

A : 0.067 m^3

B : 0.050 m^3

C : 0.033 m^3

D : 0.0167 m^3

Q :) The specific gravity of sandy soil is equal to

A : 3.15

B : 2.6

C : 2.2

D : 2.8

Q :) What utilizable by the plants is available in the soils mainly in the form of

A : Gravity water

B : Capillary water

C : Hygroscopic water

D : Stored water

Q :) Relative density of a compacted dense sand is approximately equal to

A : 0.4

B : 0.6

C : 0.95

D : 1.20

Q :) Which one of the following statement is correct?

A : Grain size is the primary criterion for classification of coarse, as well as fine grained soil

B : Grain size is the primary criterion for classification of coarse grained soil

C : Plasticity curve classifies coarse grained soils

D : Plasticity characteristics relate to classification of coarse grained soils

Q :) For the determination of water content the soil sample is heated for a period of 24 hrs. temperature of:

A : 100°C

B : 110°C $\pm$ 10°C

C : 100°C $\pm$ 10°C

D : None of the above

Q :) Sieving is not practicable for grain size smaller than about

A : 0.075 mm

B : 0.095 mm

C : 0.15 mm

D : 0.2 mm

Q :) The shear strength in plastic undrained clay results from :

A : Internal friction

B : Cohesion

C : Intergranular friction

D : None of these

Q :) If an infinite slope of clay at a depth 5 m has cohesion of 1 t/m^2 and unit weight of 2 t/m^3, then the stability number will be:

A : 0.1

B : 0.2

C : 0.3

D : 0.4

Q :) A pile which obtains most of its load carrying capacity at the base of pile is known as

A : Friction piles

B : Footing piles

C : Compaction piles

D : End bearing piles

Q :) For clays of moderate to high plasticity, which of the following agent is the best for improving soil properties?

A : Cement

B : Fly ash

C : Lime

D : Slag

Q :) Increase of temperature:

A : Increases the viscosity of liquid

B : Decreases the viscosity of liquid

C : Decreases the viscosity of gas

D : None of the above

Q :) What shall be pressure head of a liquid is specific gravity 0.8 for a pressure head of 100 m of water

A : 80 m

B : 125 m

C : 160 m

D : 64 m

Q :) The flow of water through a hole in the bottom of a wash basin is an example of:

A : Steady flow

B : Unsteady flow

C : Free vortex

D : Forced vortex

Q :) The friction factor ‘f’ in a laminar pipe flow was found to be 0.04. The Reynold number of the flow is:

A : 2000

B : 1000

C : 800

D : 1600

Q :) The specific energy ‘E’ in a critical flow of depth y_c occurring in a triangle channel is given by

A : $E = 1.25\ y_c$

B : $E = 1.5\ y_c$

C : $E = 1.75\ y_c$

D : $E = 2\ y_c$

Q :) Which of the following is a dimensionless number?

A : Manning’s coefficient

B : Pipe friction factor

C : Chazy's coefficient

D : Hazen-William coefficient

Q :) Pick the correct statement above the maximum bending stress in the various leaf's of laminated spring, assuming it has been designed ideally

A : It increase uniformly from the shortest leaf to the longest leaf

B : It is largest in the longest leaf

C : If is largest in the shortest leaf

D : If is game in all leaf

Q :) If a composite bar of steel and copper is heated, the coffer bar will be under

A : Tension

B : Compression

C : Shear

D : Torsion

Q :) Endurance limit is

A : The maximum stress a material can sustain for very long time

B : The maximum stress a material can take under direct loading

C : The maximum bending stress the material can take

D : The maximum stress at which even a billion reversal of stress cannot failure of the material

Q :) Maximum bending moments for a simply supported beam with point load W and span ‘t’ at the mid span is-

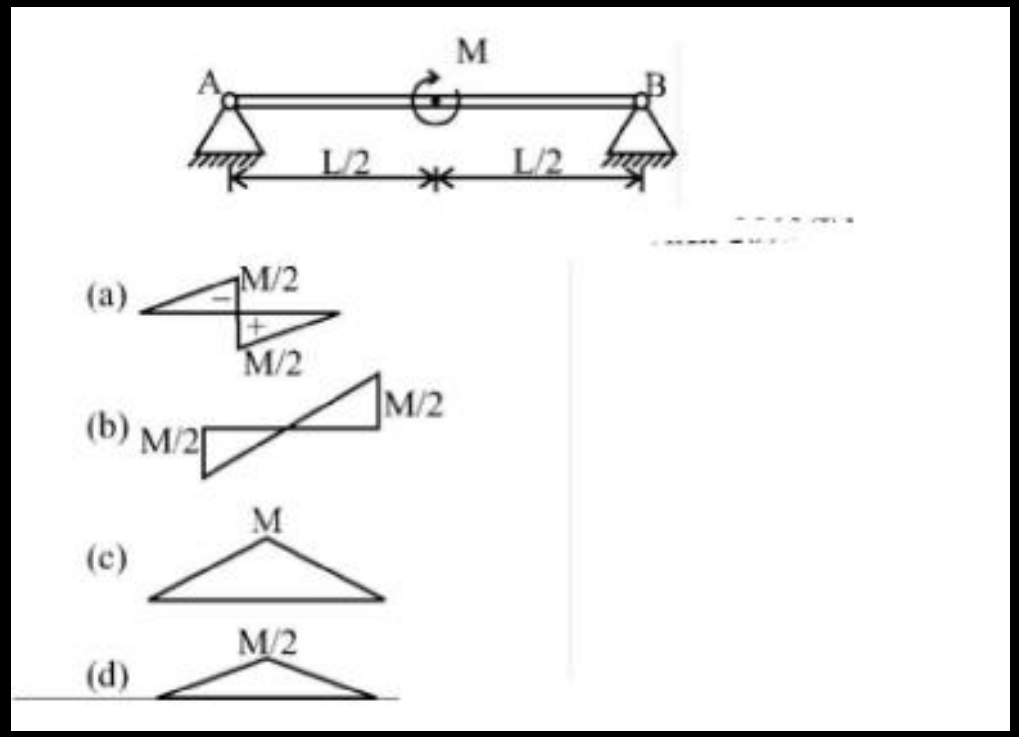
A : $\frac{wl^2}{8}$

B : $\frac{wl^2}{2}$

C : $\frac{wl}{4}$

D : $\frac{wl}{8}$

Q :) For the beam shown below, correct BMD is:



Q :) The maximum deflection dur to a load w at the free end of a cantilever of length l and of flexural rigidity EI is:

A : $\frac{wl^3}{2EI}$

B : $\frac{wl^3}{3EI}$

C : $\frac{wl^3}{4EI}$

D : None of the above

Q :) Percentage of water available on earth that is saline is

A : 33%

B : 67%

C : 97%

D : 0%

Q :) The maximum application rate by sprinklers is limited by

A : The infiltration capacity of the soil

B : The prevailing wind velocity

C : The quantity of water available

D : Sprinkler irrigation

Q :) If the intensity of rainfall is more than the infiltration capacity of soil, then the infiltration rate will be

A : Equal to rate of rainfall

B : Equal to infiltration capacity

C : More than rate of rainfall

D : More than infiltration capacity

Q :) Dicken's formula for determining maximum flood (with usual notation), is

A : $Q_p = CA^{3/4}$

B : $Q_p = C1A^{2/3}$

C : $Q_p = C\sqrt{A}$

D : $Q_p = 177C\sqrt{A}$

Q :) For a catchment area of 120 km2, the equilibrium discharge in m3/hour of an S-curve obtained by the summation of 6 hour unit hydrograph is

A : 0.2×10^6

B : 0.6×10^6

C : 2.4×10^6

D : 7.2×10^6

Q :) The variation of rainfall between two sections in isohyetal method is assumed

A : Linear

B : Parabolic

C : Elliptical

D : Non-linear

Q :) Duty is largest

A : On the fields

B :At the head of the main canal

C : Same at all places

D : None of the above

Q :) A river training work is generally required when the river is:

A : Aggrading type

B : Degrading type

C : Meandering type

D : Both (a) and (b)

Q :) Latest start of an activity is always

A : Greater than or equal to latest event times of all the preceding nodes

B : Less than or equal to earliest event time of all the preceding nodes

C : Equal to the latest event times of all the preceding nodes

D : Equal to the earliest event time of all the preceding nodes

Q :) A delay in completion time of project will increase:

A : Indirect cost

B : Direct cost

C : Labour cost

D : Fixed cost

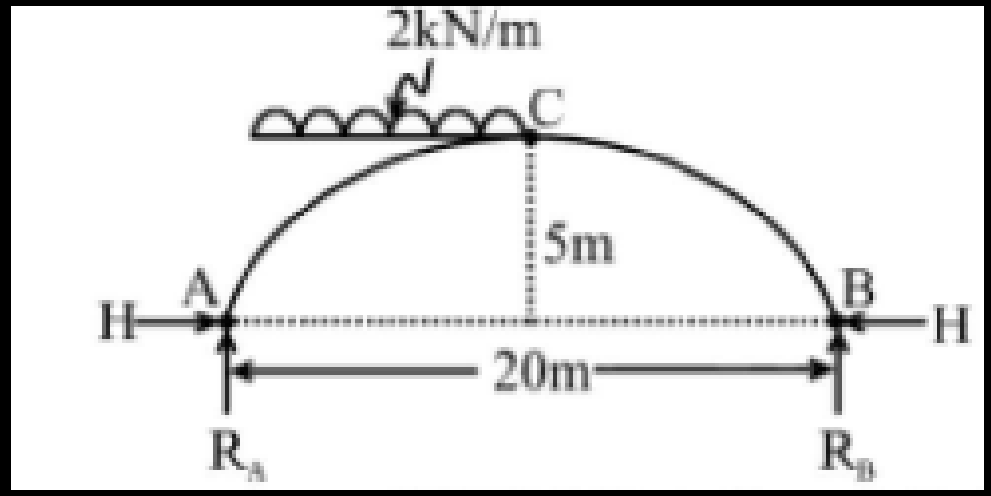
Q :) The horizontal thrust at support A in a three hinged arch shown in the given figure is

A : 5 kN

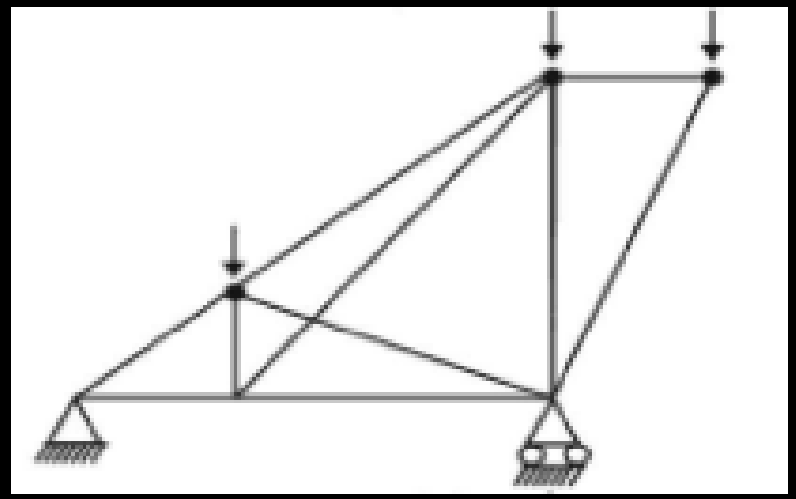
B : 10 kN

C : 15 kN

D : 20 kN



Q :) The pin joined frame as shown in following figure is-



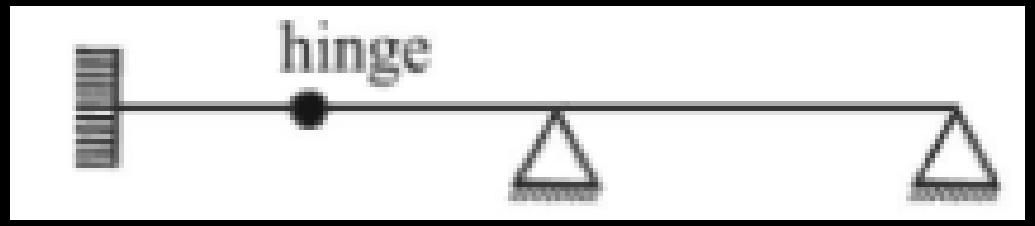
A : A perfect frame

B : A redundant frame

C : A deficient frame

D : None of above

Q :) The degree of indeterminacy of the following beam for general case of loading is:



A : 1

B : 2

C : 3

D : 4

Q :) The number of plastic hinges which will cause the overall total collapse of a structure is:

A : One more than the order of statical indeterminacy

B : Equal to order of statical indeterminacy

C : One less than the order of statical indeterminacy

D : Not determinable

Q :) Which of the followings are indeterminate structure?

A : 3-hinged arc

B : Continuous beam

C : Resultant frame

D : Both (b) and (c)

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