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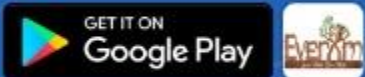
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Q : 62) The ratio of saturated unit weight to dry unit weight of a soil is 1.25. If the specific gravity of solid (G_s) is 2.65, the void ratio of the soil is

A : 0.625

B : 0.663

C : 0.994

D : 01.325

Q : 63) The vertical sides of door and window opening are known as

A : Intrados

B : Tombs

C : Reveals

D : None of the above

Q : 64) In limit state method, spacing of main reinforcement control primarily

A : Durability

B : Deflection

C : Collapse

D : Cracking

Q : 65) In a plate load test, the ultimate load is estimated from the load-settlement curve on a log-log graph

A : By drawing tangents to the curve at the initial and final points

B : Directly

C : By the secant method

D : Simply at 0.2% of the maximum settlement

Q : 66) During seepage through an earth mass, the direction of seepage is

A : Parallel to the equipotential lines

B : Perpendicular to the stream lines

C : Perpendicular to the equipotential lines

D : Along the direction of gravity

Q : 67) With the usual notation, sinking factor is given by

A : $(1 + i)^n$

B : $i / [(1 + i)^n - 1]$

C : $\frac{1}{(1+i)^n}$

D : $\frac{(1+i)^n}{[(1+i)^n - 1]}$

Q : 68) Which of the following condition is to be satisfied both in elastic and plastic analysis?

A : Equilibrium condition

B : Yield condition

C : Plastic moment condition

D : Mechanism condition

Q : 69) A vane, 10.8 cm long, 7.2 cm in dia. Was pressed into a soft clay at the bottom of a bore hole. Torque was applied and the value at failure was 45 Nm. Find the shear strength of the clay on a horizontal plane

A : 21 kN/m²

B : 42 kN/m²

C : 14 kN/m²

D : 84 kN/m²

Q : 70) The deterioration of the properties of a material was subjected to repeatedly applied stresses is termed as

A : Creep

B : fatigue

C : Isotropic

D : Elasticity

Q : 71) As per IS : 456 : 2000, the minimum cover shall be provided in the footing

A : 25 mm

B : 40 mm

C : 50 mm

D : 60 mm

Q : 72) A cycle load test is performed to determine a pile's

A : Skin resistance

B : Tip resistance

C : Ultimate load capacity under repetition

D : Skin resistance and tip resistance separately

Q : 73) Which one of the following parameters can be used as a rough guide to determine the type of failure in soil?

A : Angle of shearing resistance

B : Density index

C : Penetration test

D : Plate load test

Q : 74) A cantilever beam of rectangular cross-section is subjected to a concentrated load 'w' at its free end. If the width of the beam is doubled, the deflection at the free end as compared to earlier case, will be

A : 8 times

B : 4 times

C : 2 times

D : Half

Q : 75) Defects such as blisters and cracks in bitumen may be caused by natural agencies such as

- 1. Water**
- 2. Air**
- 3. Light**

Of the above, the correct agency (ies) is/are

A : 1 alone

B : 1 and 2

C : 1 and 3

D : 1, 2 and 3

Q : 76) The effective length of fillet weld should not be less than

A : Size of weld

B : Two times the size of weld

C : Three times the size of weld

D : Four times the size of weld

Q : 77) The exit gradient for the seepage of water through a soil medium is given by

A : The slope of the flow lines

B : The slope of the equipotential lines

C : The ratio of total head to the height of seepage

D : The ratio of head loss to the height of seepage

Q : 78) The product E and I is known as

A : Polar moment

B : Flexural rigidity

C : Modulus of repture

D : Modulus of rigidity

Q : 79) For centring of R.C.C. structures the bricks used should be

A : Ist class

B : IInd class

C : IIIrd class

D : IVth class

Q : 80) Rankine-Gordon formula which covers all cases of struts, is

$$\text{A : } P = \frac{f c A}{1 + \left(\frac{a}{k}\right)^2 l}$$

$$\text{B : } P = \frac{f c A}{1 + a \left(\frac{l^2}{k^2}\right)}$$

$$\text{C : } P = \frac{f c A}{k^2 + a^2 l^2}$$

$$\text{D : } P = \frac{f c A}{1 + \frac{a^2 l}{k^2}}$$

Where notation are as usual.

Q : 81) Wide and deep cracks in concrete members may be repaired by

A : Grouting

B : Shotcreting or guniting

C : Mortar replacement

D : Epoxy injection

Q : 82) The side face reinforcement in the deep beam shall NOT be less than

A : $0.1 \times$ web area

B : $0.01 \times$ web area

C : $0.001 \times$ web area

D : $0.012 \times$ web area

Q : 83) The number of funicular polygons which can be drawn to pass through two specified points in the space diagram are

A : One

B : Two

C : Three

D : Infinity

Q : 84) For a single point load 'W' moving on a symmetrical parabolic three hinged arch of span 'L', the maximum sagging moment occurs at a distance 'x' from ends. The value of x is

A : 0.211 L

B : 0.250 L

C : 0.234 L

D : 0.50 L

Q : 85) The minimum thickness of the wall where single Flemish bond is used

A : One brick thick

B : One and a half brick thick

C : Two and a half brick thick

D : None of the above

Q : 86) Hot bitumen is used for damp-proofing course in the building. IT can be applied with a minimum thickness of

A : 2 mm

B : 3 mm

C : 5 mm

D : 6 mm

Q : 87) A reinforced concrete beam having width of 250 mm and effective depth of 400 mm, is reinforced with 415 of steel grade (Fe 415). As per the provisions of IS : 456 : 2000, the minimum and maximum amount of tensile reinforcement for the section are respectively

A : 250 mm^2 and 3500 mm^2

B : 205 mm^2 and 4000 mm^2

C : 270 mm^2 and 2000 mm^2

D : 300 mm^2 and 2500 mm^2

Q : 88) The process of compaction of a soil involves

A : Expulsion of pore water

B : Expulsion of pore air

C : Expulsion of both pore air and pore water

D : None of the above

Q : 89) Which one of the method is NOT classified as force method?

A : The theorem of three moments

B : The moment distribution method

C : The method of consistent deformation

D : Castigliano's theorem

Q : 90) A bar of 4 cm diameter is subjected to an axial load of $4T$. The extension of the bar over a gauge length of 20 cm is 0.03 cm. The decrease in diameter is 0.0018 cm. The Poisson's ratio is

A : 0.06

B : 0.03

C : 0.33

D : 0.35

Q : 91) Which one of the following is unstratified rock?

A : Quartz

B : Granite

C : Lime stone

D : Slate

Q : 92) A PERT network has 9 activities on its critical path. The standard deviations of each activity on the critical path is 3. The standard deviation of the critical path is

A : 3

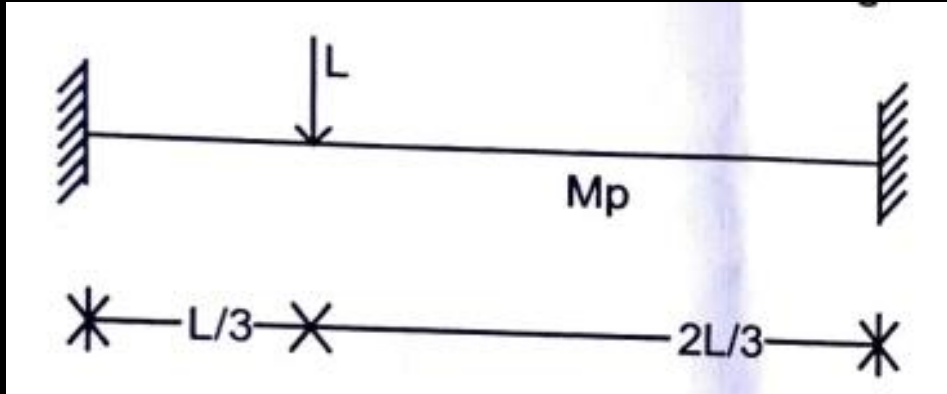
B : $\sqrt{3}$

C : $3\sqrt{3}$

D : 9

Q : 93) Collapse load for the beam shown in fig. is

- A : $6 M_p/L$**
- B : $8 M_p/L$**
- C : $9 M_p/L$**
- D : $16 M_p/L$**



Q : 94) Which one of the following rollers is suitable for soil cement stabilized construction?

A : Vibratory roller

B : Sheed foot roller

C : Pneumatic roller

D : Smooth wheel roller

Q : 95) Which of the following is NOT a drier in paints?

A : Leatharge

B : Lead oxide

C : Red lead

D : Copper sulphate

Q : 96) Lug angles are used to connect the members to

A : Reduce the length of connection

B : Increase the length of connection

C : Increase the strength of rivet connection

D : Reduce the strength of rivet connection

Q : 97) Which test is to be conducted in the laboratory for the determination of shear strength parameters 'C' and ' ϕ ' of soil?

A : Tri-axial compression test

B : Atterberg limit test

C : Proctor compaction test

D : Relative density test

Q : 98) The strain energy stored in a simply supported beam of span 'l' and flexural rigidity 'EI' due to a central concentrated load 'w' is

A : $\frac{w^2 l^3}{48EI}$

B : $\frac{w^2 l^2}{48EI}$

C : $\frac{w^2 l^3}{96EI}$

D : $\frac{w^2 l^2}{96EI}$

Q : 99) D' Alembert's principle is used for

A : Determining stresses in the truss

B : Reducing the problem of kinetics to equivalent static problem

C : Stability of floating bodies

D : Designing safe structures

Q : 100) Lifting of the corners of the slabs is prevented by providing _____ reinforcement.

A : Torsion

B : Sear

C : Transverse

D : Longitudinal

Result : **SSC JE 2019**

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Swaraj Chauhan



Pankaj Gupta



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