

Rajat Singh

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 $C = \frac{1}{n} R \frac{1}{6}$ Chezy's coefficient (C) is related to 1. Manning's roughness coefficient (n) Chezy's eqn as_. $V = C \int RS \int (a)C = \frac{1}{n} R^{1/6} \quad (b) C = \frac{1}{n} R^{5/6}$ manning's eq (c) $C = \frac{1}{n} R^{2/3} \quad (d) C = \frac{1}{n} R^{1/3}$ $V = \frac{1}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ 30 Quest 100 Quest $C = \frac{1}{0} R^{\prime} 6$ 1000

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3. Which level has internal compensator mechanism to automatically adjust the line of sight?
(b) Tilting level
(c) Abney level
(d) Wye-level



Chemical compounds such as 4. **Dichloro-diphenyl** trichloro-ethane (DDT) are applied on wood for the prevention of: (a) wet rot discoloration (b) insects foxiness (d)







Which of the following is NOT 6. method for estimating deflections in beams? (a) By integration of bending moment equation (b) By integration of shear force and load equation Mohr's circle method (d) Moment area method

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A combination of two or more pipes 7. 9 connected between two points so that the discharge divides at the first) θ, junction and re-joins at the next is B known as θ. pipes in parallel 7 (b) pipes in series **(C)** pipes in horizontal (d) pipes in vertical

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In granular materials, the resistance 8. to sliding on any plane within the soil T = C+(+)tanp mass depends upon the_ normal force and angle of internal friction (b) tangential force and angle of sliding friction tangential force only **(C)** (d) normal force only



The meridians that are parallel to the 9. directions taken by freely moving magnetized needles, as in a compass are called as: geodetic meridians (a) magnetic meridians dynamic meridians (d) grid meridians

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zero

A simply supported beam of length L is associated with two point loads, each of magnitude P, acting at one third of span from either end as per the following diagram. Calculate the magnitude of bending moment acting at the left end $(a)^{\frac{P.L}{3}}$ (b) $\frac{2P}{3}$ (c) P.L (a) Zero (b) $\frac{2P.L}{3}$

11.

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lime $\simeq 65\%$ cao

Which of the following oxides is present in highest proportion in Ordinary Portland cement? (a) NaO (b) MgO (c) CaO (d) SiO₂

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the following NOT Which is an assumption of Rankine Theory? Vertical boundary formed by the (a) vertical back of a smooth wall surface. Soil is homogenous and dry. (b) Soil is cohesive. Semi-infinite mass of soil bound (d) by a horizontal surface.



If the perimeter of traverse is 2000 m 13. and the amount of closing error is 10 lomm, then the relative closing would be: 2000 0.005 2000m 5 (b) = 0.005 0.05 **(C)** A (d) 0.5 Ó





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15. BG-> 1.676m $M q \rightarrow 1 m$ NG -> 0.762m $LG \rightarrow 0.610 \text{ m} \text{ (c) camber end of a camber of a$

The clear minimum perpendicular distance between the inner faces of two rails is called as:
(a) cross-slope
(b) super elevation
(c) camber
(a) rail gauge

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Defective outlet and head regulator along with inadequate slope and not-regime section result' the channel.
(a) silting
(b) alignment
(c) scouring
(d) sedimenting

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124 A Inglis formula for the calculation of 18. peak drainage discharge is applicable A+lo.4 to: ~ 123JA (a) circular shaped catchments in old **Bombay State** North (b) Dicken circular shaped catchments in Hyderabad Deccan regions fan shaped catchments in old **Bombay State** (d) fan shaped catchments in **Hyderabad Deccan regions**

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19. On which of the following factors does the duty of irrigation water NOT depend?
(a) Cultivation practices
(b) Population of the locality
(c) Type of soil
(d) Type of crop

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20. For an isotropic homogeneous body, the ratio of lateral strain to axial strain is called as:
(a) modulus of elasticity
(b) plasticity index
(c) Poisson's ratio
(d) yield value

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X is the measure and adjustment of 22. price levels for goods and services across a broad sector of the economy, where X is: reversal (a) indexation dilution **(C)** reciprocation (d)

water



The specific gravity of soil solids is 23. Sand replecement determined by: oven drying method -> water (a) unit sand bath method - warer **(b)** weigh pycnometer method C (d) sieve analysis core



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