

Q : Timber lintels strengthened by the provision of mild steel plates at their top and bottom are called: [UPRUVNL JE 2020]

A : Flitched lintels

B : Trief lintels

C : Matic lintels

D : Lacquer lintels



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Q : The value of runoff coefficient 'C' for bituminous and cement concrete pavements lies between ____ . [UPRUVNL JE 2020]

A : 0.8 and 0.9

B : 0.4 and 0.65

C : 0.3 and 0.58

D : 0.35 and 0.70



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EVEREXAM

Q : A curve connecting all points below the ground surface of equal vertical pressure is called: [UPRUVNL JE 2020]

A : Isobar

B : Isobath

C : Isocline

D : Isochrone



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EVEREXAM

Q : The cement that is the same as blast furnace cement except that the blast furnace slag is ground wet and separately from cement is:

[UPRUVNL JE 2020]

A : High alumina cement

B : expansive cement

C : Trief cement

D : Oilwell cement

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Q : Which of the following instrument is used for measuring evaporation and settlement solids? [UPRUVNL JE 2020]

A : Imhoff cone

B : Beaker

C : Test tube

D : Jar



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Q : Turbidity of raw water is a measure of: [UPRUVNL JE 2020]

A : Floating objects

B : pH of water

C : Chemical oxygen demand

D : Suspended solids



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Q : The pressure exerted by water on soil through which it percolates, is called [UPRUVNL JE 2020]

A : Passive pressure

B : Radial pressure

C : Active pressure

D : Seepage pressure



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Q : The sign of decay appearing in the form of yellow or red tinge or decolouration of over mature trees is known as: [UPRUVNL JE 2020]

A : Shakes

B : Knots

C : Foxiness

D : Braces



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Q : The value of rigidity factor for design of flexible pavements is:

[UPRUVNL JE 2020]

A : Equal to 0 for lower tyre pressure ($< 7 \text{ kg/cm}^2$)

B : Greater than 1 for lower tyre pressure ($< 7 \text{ kg/cm}$)

C : Less than 1 for lower tyre pressure

D : ($< 7 \text{ kg/cm}^2$)

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Q : The digestion of settled sludge is carried out by: [UPRUVNL JE 2020]

A : Aerobic decomposition

B : Decomposition

C : Anaerobic decomposition

D : Composition



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Q : Which of the following building quantities is measured in cubic metre? [UPRUVNL JE 2020]

A : Brick masonry

B : Plastering

C : Flooring

D : Damp proof course



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EVEREXAM

Q : According to the Indian Standard soil classification system silt is symbolic with letter [UPRUVNL JE 2020]

A : C

B : M

C : G

D : S



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Q : Which of the following is used as drier in varnish?

[UPRUVNL JE 2020]

A : Mastic

B : Litharge

C : Copal

D : Turpentine



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Q : Speed limit signs are circular in shape and have _____ background and _____ border respectively [UPRUVNL JE 2020]

- A : Red, Black
- B : White, Black
- C : White, Red
- D : Red, White



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Q : The primary waste water treatment is aimed at: [UPRUVNL JE 2020]

A : Settlement

B : Sedimentation

C : Coagulation

D : Filtration



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Q : Heavy mineral material found in raw sewage is called:

[UPRUVNL JE 2020]

A : Grit

B : Gravel

C : Silt

D : Glass



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Q : Two primary settling basin are 23 m diameter and 2.1 m in depth. If the discharge is 26000 m³ per day, and the detention time is 2.40 h, calculate the volume of the tank. [UPRUVNL JE 2020]

A : 1200 m³

B : 1350 m³

C : 1250 m³

D : 1300 m³

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Q : Calculate the population equivalent of a city given the sewage released is 100 MLD with average BOD at 5 days is 200 mg/L and the domestic sewage quantity released is 0.1 kg person per day.

[UPRUVNL JE 2020]

A : 300000

B : 200000

C : 275000

D : 250000

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Q : When tested for 7 days as per IS: 4031, the heat of hydration of low heat portland cement shall NOT be more than: [UPRUVNL JE 2020]

A : 75 cal /g

B : 65 cal/g

C : 85 cal/g

D : 55 cal/g



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Q : Mass per unit volume of soil is defined as: [UPRUVNL JE 2020]

A : Density index

B : Density

C : Unit weight

D : Specific gravity



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Q : The recommended value of weaving length in a rotary intersection for design speed of 30 km/h is ____. [UPRUVNL JE 2020]

A : 30-60 m

B : 20-40 m

C : 90-110 m

D : 45-90 m



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Q : When tested by Le-chatelier method as per IS: 4031-1988, unaerated ordinary rapid hardening cement shall NOT have an expansion of more than: [UPRUVNL JE 2020]

A : 25 mm

B : 20 mm

C : 10 mm

D : 30 mm



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Q : The time elapsed between the moment at which water added to the ordinary Portland cement and the moment at which ordinary portland cement paste completely lost its plasticity should, NOT be greater than:

[UPRUVNL JE 2020]

A : 500 min

B : 700 min

C : 600 min

D : 800 min

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Q : When tested by Vicat's apparatus as per IS: 12600 - 1989, initial setting time (in min) for low heat cement is NOT less than:

[UPRUVNL JE 2020]

A : 30

B : 90

C : 120

D : 60



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Q : A water supply scheme has to be designed for a city having a population of 100,000 people. if the average consumption is 250 Lpcd, the estimated daily draft is: [UPRUVNL JE 2020]

A : 45 MLD

B : 25 MLD

C : 15 MLD

D : 35 MLD



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Q : Which of the following growth curves follows S-shape?

[UPRUVNL JE 2020]

A : Coliform

B : Population

C : COD

D : BOD



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Q : A soil sample has porosity of 40%. The void ratio of the soil is:

[UPRUVNL JE 2020]

A : 0.4

B : 0.67

C : 0.33

D : 0.5



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Q : Which of the following statements about volume batching is true?

[UPRUVNL JE 2020]

A : It facilitates accuracy in proportioning of material

B : It is not easy to measure granular material in terms of volume.

C : Problem of bulking is negated

D : It is a good method for proportioning.

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Q : Terzaghi's analysis of bearing capacity considers: [UPRUVNL JE 2020]

A : General shear failure

B : Local shear failure

C : Punching shear failure

D : Wedge failure



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Q : Which of the following method is NOT used to determine water content in soil? [UPRUVNL JE 2020]

A : Oven dry penetration method

B : Static cone penetration method

C : Alcohol method

D : Sand bath method

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Q : Settlement the sewage in the pressure of excess oxygen is called:

[UPRUVNL JE 2020]

A : Deactivated sludge

B : Indigested sludge

C : Digested sludge

D : Activated sludge

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Q : Solid particle larger than colloidal particle are called:

[UPRUVNL JE 2020]

A : Aerosols

B : Dust

C : Fog

D : Smoke



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Q : Which of the following is a field test to determine hydraulic conductivity of soil? [UPRUVNL JE 2020]

A : Pumping out test

B : Conolidation test

C : Triaxial

D : Constant head permeability test



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Q : The over consolidation ratio for normal consolidated soil is

[UPRUVNL JE 2020]

A : 1

B : < 1

C : 0

D : > 1



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Q : In water curing method, curing of retaining walls or concrete columns is carried out by: [UPRUVNL JE 2020]

A : Immersion

B : Ponding

C : Spraying or fogging

D : Stema curing



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EVEREXAM

Q : Which of the following is NOT a Precaution to be adopted for concreting in sub-zero condition? [UPRUVNL JE 2020]

A : Admixture of anti-freezing material

B : Sprinkling of water over aggregates

C : Electrical heating of concrete mass

D : Use of air-entraining agents

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Q : The ration of volume of voids to volume of soil solids is called:

[UPRUVNL JE 2020]

A : Water content

B : Porosity

C : Percentage air content

D : Voids ratio



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