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At Just







For Any Query Call – 8595517959 | Website – everexam.org

Daily Class – 8:30 PM

Q: 1) If p is the standard consistency of cement the amount of water used in conducting the initial setting time test on cement is

A: 0.65 p

B: 0.85 p

C: 0.6 p

D: 0.8 p



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Daily Class – 8:30 PM

Q: 2) For complete hydration of cement the w/c ratio needed is

A: Less than 0.25

B: More than 0.25 but less than 0.35

C: More than 0.35 but less than 0.45

D: More than 0.45 but less than 0.60



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Daily Class – 8:30 PM

Q: 3) Blast furnace slag has approximately

A: 45% calcium oxide and about 35%

silica

B: 50% alumina and 20% calcium oxide

C: 25% magnesia and 15% silica

D: 25% calcium sulphate and 15%

alumina



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Daily Class – 8:30 PM

Q: 4) The temperature range in a cement kiln is

A: 500 to $1000^{\circ}C$

B: $1000 \text{ to } 1200^{\circ}C$

C: 1300 to $1500^{\circ}C$

D: 1600 to $2000^{\circ}C$



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Daily Class - 8:30 PM

Q: 5) Before testing setting time of cement one should test for

A: Soundness

B: Strength

C: Fineness

D: Consistency





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Daily Class – 8:30 PM

Q: 6) Increase educes the rate of strength development and leads to higher shrinkage

B: Increases the rate of strength development and reduces the rate of deterioration

C: Decreases the rate of strength development and increases the bleeding of cement.

D: Increases the rate of strength development and leads to higher shrinkage



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Daily Class – 8:30 PM

Q:7) The test on cement designed to accelerate the slaking process of the ingredient of cement and to determine the resulting expansion in a short time is

A: Setting time test

B: Soundness test

C: Normal consistency test

D: Accelerated test



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Daily Class – 8:30 PM

Q: 8) For marine works, the best suited cement is

A: Low heat Portland cement

B: Rapid hardening cement

C: Ordinary Portland cement

D: Blast furnace slag cement



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Daily Class – 8:30 PM

Q: 9) The proper size of mould for testing compressive strength of cement is

A: 7.05 cm cube

B: 10.05 cm cube

C: 15 cm cube

D: 12.05 cm cube



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Daily Class - 8:30 PM

Q: 10) The specific gravity of commonly available ordinary Portland cement is

A: 4.92

B: 3.15

C: 2.05

D: 1.83



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Daily Class – 8:30 PM

Q: 11) A quick-setting cement has an initial setting time of about

A: 50 minutes

B: 40 minutes

C: 15 minutes

D: 5 minutes



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Daily Class – 8:30 PM

Q: 12) In cements, generally the increase in strength during a period of 14 days to 28 days is primarily due to

 $A: C_3A$

 $B: C_2A$

 $\mathbf{C}: C_3S$

 $D: C_4AF$



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Daily Class – 8:30 PM

Q:13) What is the requirement of water (expressed as % of cement w/w) for the completion of chemical reactions in the process pf hydration of OPC?

A: 10 to 15%

B: 15 to 20%

C: 20 to 25%

D: 25 to 30%



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Daily Class - 8:30 PM

Q: 14) Fineness of cement is measured in the units of

A: Volume / mass

B: Mass / volume

C: Area / mass

D: Mass / area



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Daily Class – 8:30 PM

Q: 15) Soundness test of cement is carried out to determine its

A: Alumina content

B: Iron oxide content

C: Free lime content

D: Durability under sea water



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Daily Class – 8:30 PM

Q: 16) Which compound of cement is responsible for strength of cement?

A: Magnesium oxide

B: Silica

C: Alumina

D : Calcium sulphate



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Daily Class – 8:30 PM

Q: 17) Which type of cement is recommended in large mass concrete works such as a dam?

A: Ordinary Portland

B: High alumina

C: Low-heat Portland

D: Portland pozzolana



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Daily Class – 8:30 PM

Q:18) The constituent compound in Portland cement which reacts immediately with water, and also sets earliest, is

A: Tricalcium silicate

B: Dicalcium silicate

C: tricalcium aluminate

D: Tetra calcium aluminoferrite



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Daily Class – 8:30 PM

Q: 19) Which one of the following cements is a deliquescent?

A: Quick setting Portland cement

B: White and Coloured cement

C: Calcium chloride cement

D: Water repellent cement



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Daily Class – 8:30 PM

Q: 20) Air permeability method is used to determine

A: Soundness of cement

B: Setting time

C: Fineness of cement

D: Resistance of cement



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Daily Class – 8:30 PM

Q: 21) Polymer concrete is most suitable for

A: Sewage disposal works

B: Mass concreting works

C: Insulating exterior walls of an air-

conditioned building

D: Road repair works



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Daily Class – 8:30 PM

Q: 22) The cement and water slurry coming on the top and setting on the surface is called

A: Crazing

B: Efflorescence

C: Sulphate deterioration

D: Laitance



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Daily Class – 8:30 PM

Q: 23) Which one of the following methods/techniques will be used for placing of concrete in dewatered 'Caissons or coffer' dams?

A: Tremie method

B : Placing in bags

C: Prepacked concrete

D: In-the-dry practice



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Daily Class – 8:30 PM

Q: 24) The minimum cement content (kg/m^3) for a pre-specified strength of concrete (using standard notations) premised on 'free water-cement ratio' will be as

A:
$$1 - \frac{c}{1000S_c} - \frac{W}{1000}$$

$$B: \frac{Water\ content}{Water\ cement\ ratio}$$

C: Water content × water cement ratio

$$D: \frac{100F}{C+F}$$



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Daily Class – 8:30 PM

Q: 25) On an average, in a 125 mm slump, the concrete may lose about (in first one hour)

A: 15 mm of slump

B: 25 mm of slump

C: 40 mm of slump

D: 50 mm of slump



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Daily Class - 8:30 PM

Q: 26) The creep strain of cement attains its terminal values by

A:1 year

B: 2 years

C: 5 years

D: 6 months



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Daily Class – 8:30 PM

Q: 27) Which method of curing of concrete is recommendable for rapid gain of strength of concrete?

A: Sprinkling water

B: Membrane curing

C: High-pressure stream curing

D: Infrared radiation curing



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Daily Class – 8:30 PM

Q: 28) Which of the following is appropriate as simple field method for assessing consistency of concrete?

A: Compacting factor

B: Slump test

C: Vee-bee test

D : Kelly ball test



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Daily Class – 8:30 PM

Q: 29) In a concrete mix, if the maximum size of coarse aggregate is increased the proportion of fine to coarse aggregate should be

A: Increased

B: Decreased

C: Kept the same

D: Not dependent on size of aggregates



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Daily Class – 8:30 PM

Q: 30) Which of the following tests compares the dynamic modulus of elasticity of samples of concrete?

A: Compression test

B: Ultrasonic pulse velocity test

C: Split test

D: Tension test



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Daily Class – 8:30 PM

Q: 31) If one intends to obtain the best workability of concrete, the preferred shape of aggregate is

A: Round

B: Annual

C: Triangular

D: Flinty



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Daily Class - 8:30 PM

Q: 32) According to the Indian standard specifications, concrete should be cured under a humidity of

A: 90%

B:80%

C:70%

D: 60%



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Daily Class – 8:30 PM

Q: 33) Which one of the following is not required in concrete mix-design?

A: Degree of quality control concrete

B: Workability of concrete

C: Characteristic compressive strength

of concrete at 28 days

D: Initial setting time of cement



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Daily Class – 8:30 PM

Q: 34) Which one of the following is employed to determine strength of hardened existing concrete structure?

A: Bullet test

B: Kelly ball test

C: Rebound hammer test

D : Cone penetrometer



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Daily Class – 8:30 PM

Q:35) Which one of the following is the correct expression for the target mean strength f_t of concrete mix?

$$A: f_t = kf_{ck} + S$$

$$\mathbf{B}: \boldsymbol{f}_t = \boldsymbol{f}_{ck} + k\boldsymbol{S}$$

$$C: f_t = f_{ck} + S$$

$$D: f_t = kf_{ck} + K$$

Where f_{ck} is characteristic strength, K is probability factor and S is standard deviation



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Daily Class – 8:30 PM

Q: 36) How are concrete mixers specified?

A: By the number of cement bag used in a batch

B: By the nominal volume of concrete that can be mixed in a batch

C: By the volume of water used

D: By the volume of aggregate used



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Daily Class – 8:30 PM

Q: 37) What is the correct sequence of operations involved in concrete productions?

A: Batching – Mixing – Handling – Transportation

B: Mixing – Batching – Handling – Transportation

C: Transportation – Handling – Mixing – Batching

D: Handing – Transportation – Mixing – Batching



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Daily Class – 8:30 PM

Q: 38) What type of vibrator is used for concreting thin section as well as heavily reinforced section?

A: Vibrating needle

B: Internal vibrator

C: Surface vibrator

D: Form vibrator



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Daily Class – 8:30 PM

Q: 39) Which one of the following aggregate gives maximum strength in concrete?

A: Rounded aggregate

B: Elongated aggregate

C: Flaky aggregate

D: Cubic aggregate



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Daily Class – 8:30 PM

Q: 40) The role of superplasticizer in a cement paste is to

A: Disperse the particles

B: Disperse the particles and remove air bubbles

C: Disperse the particles, remove air bubbles and to retard setting

D: Retard setting



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Daily Class – 8:30 PM

Q: 41) When the deposit of efflorescence is more than 10% but less than 50% of the exposed area of the brick, the presence of efflorescence is

A: Moderate

B: Slight

C: Heavy

D: Serious



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Daily Class – 8:30 PM

Q: 42) Mohs scale is used for stones to determine

A: Flakiness index

B: Durability

C: Strength

D: Hardness



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Daily Class – 8:30 PM

Q: 43) Which one of the following stone is produced by moulding a mixture of iron slag and Portland cement?

A: Imperial stone

B: Garlic stone

C: Ransom stone

D: Victoria stone



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Daily Class – 8:30 PM

Q: 44) Which of the following is an ODD one as regards 'requirements' of good brick-earth?

A: It must be free from lumps of lime

B: It should not be mixed with salty

water

C: It must be non-homogeneous

D: It should not contain vegetable and

organic matter



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Daily Class – 8:30 PM

Q: 45) The compressive strength of heavy duty bricks, as per IS: 2980-1962, should be not less than

A: 440 kg/ cm^2

B: 175 kg/ cm^2

 $C: 100 \text{ kg/}cm^2$

 $D:75 \text{ kg/}cm^2$



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Daily Class – 8:30 PM

Q:46) In order to achieve a safe compressive strength of 20 kg/cm² in a brick masonry, what should be the suitable range of crushing strength of bricks?

A: 35 kg/ cm^2 to 70 kg/ cm^2

B: 70 kg/ cm^2 to 105 kg/ cm^2

C: 105 kg/ cm^2 to 125 kg/ cm^2

D: More than 125 kg/ cm^2



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Daily Class – 8:30 PM

Q: 47) The temperature at which the bricks are burnt in kiln varies from

 $A:500^{o}\ to\ 800^{c}C$

 $B:800^{\circ} to 1000^{\circ}C$

 $C: 1000^{\circ} to 1200^{\circ} C$

 $D: 1200^{\circ} to 1500^{\circ} C$



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Q: 48) which one of the following is the correct statement?

Refractory bricks resist:

A: High temperature

B: Chemical action

C: Dampness

D: All of the above



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Q: 49) The bricks which are extensively used for basic refractories in furnaces are

A: Chrome bricks

B: Sillimanite bricks

C: Magnesite bricks

D: Forsterite bricks

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Daily Class – 8:30 PM

Q:50) The mortar used for masonry construction are classified based on strength is IS 2250 and IS 1905 according to their designation $L_1, L_2, H_1, H_2, M_1, M_2$. The correct sequence of increasing order of their strength is

 $A: L_1, L_2, H_1, H_2, M_1, M_2$

 $B: L_2, L_1, M_2, M_1, H_2, H_1$

 $C: M_1, M_2, H_1, H_2, L_1, L_2.$

 $D: L_2, L_1, M_1, M_2, H_1, H_2.$



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Daily Class - 8:30 PM

Q: 51) Lime mortar is generally made with

A: Quick lime

B: Fat lime

C: Hydraulic lime

D: White lime



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Daily Class – 8:30 PM

Q: 52) The compressive strength of a standard good 1: 3 Portland cement-sand mortar after 3 days of curing should not be less than

A: 70 kg/ cm^2

B: 115 kg/ cm^2

 $C: 175 \text{ kg/}cm^2$

D: 210 kg/ cm^2



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Daily Class - 8:30 PM

Q: 53) The approximate proportion of dry cement mortar required for brick work is

A: 60%

B: 45%

C: 30%

D: 10%



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Daily Class – 8:30 PM

Q: 54) The modulus of rupture of hydraulic lime mortar (28 days curing) should NOT be less than

 $A: 1 N/mm^2$

 $B: 2 N/mm^2$

 $C: 2.5 \text{ N/mm}^2$

 $D: 3.0 \text{ N/}mm^2$



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Q:55) The maximum bulking of sand is likely to occur at a moisture content of

A:5%

B:8%

C: 11%

D: 14%



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Daily Class - 8:30 PM

Q: 56) One of the main demerits in using the lime mortar is that it

A: Is not durable

B: Does not set quickly

C: Swells

D: Is plastic



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Q: 57) Guniting is the application of mortar

A : On a surface under pneumatic pressure

B: On a vertical surface

C: On brickwork by manual method

D: Of fluid consistency for repair works



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Daily Class – 8:30 PM

Q: 58) A mortar in which both cement and lime are used in definite proportions as binding materials is referred to as

A: Light weight mortar

B: Fire resistance mortar

C: Gauged mortar

D: Water resistant mortar



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Daily Class – 8:30 PM

Q: 59) Why is lime added to cement slurry for the topcoat of plastering?

A: To improve the strength of plaster

B: To stiffen the plaster

C: To smoothen the plaster for ease of

spread

D: To make the plaster non-shrinkable



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Daily Class – 8:30 PM

Q: 60) When steel reinforcing bars are provided in masonry, the bars shall have an embedment with adequate cover in cement-sand mortar not leaner than

A:1:3

B:1:4

C:1:5

D:1:6



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Daily Class – 8:30 PM

Q: 61) Which one of the following light weight element will be added to enhance to protective properties for x-ray shielding mortars?

A: Sodium

B: Potassium

C: Lithium

D: Calcium

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Daily Class – 8:30 PM

Q: 62) The relation between the strength of brick masonry f_w , the strength of bricks f_h , and the strength of mortar f_m is given by (Where K_w is a coefficient based on the layout of the bricks and the joints).

$$\mathbf{A}: f_w = \sqrt{K_w \frac{f_b}{f_m}}$$

$$\mathsf{B}: f_w = K_w \sqrt{\frac{f_b}{f_m}}$$

$$C: f_w = \sqrt{K_w f_b f_m}$$

$$D: f_w = K_w \sqrt{f_b f_m}$$

$$\mathsf{D}: f_w = K_w \sqrt{f_b f_m}$$



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Daily Class – 8:30 PM

Q: 63) When provided with alternating courses of (a) all headers and (b) all stretchers, the front elevation of such brick masonry is designed as

A: English bond

B: Single Flemish bond

C: Double Flemish bond

D: Rat-trap bond



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Daily Class – 8:30 PM

Q: 64) Maximum slenderness ratio for load-bearing masonry wall built in cement mortar, as per IS code, shall not exceed

A:13

B:20

C: 27

D:30



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Daily Class – 8:30 PM

Q:65) As per masonry code, the stiffening coefficient for walls stiffened by piers, buttresses or intersection walls can be

A: 0 to 1.0

B: 1.0 to 2.0

C: Greater than 2.0

D: Invariantly 1.0



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Daily Class – 8:30 PM

Q: 66) The average compressive strength of a burnt clay brick is less than 12.5 N/mm^2 . The allowable rating of efflorescence is

A: Moderate

B: Serious

C: Heavy

D: Zero



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Daily Class – 8:30 PM

Q: 67) Which type of brick masonry bond is provided for heavy loads on masonry?

A: English bond

B: Zig-zag bond

C: Single Flemish bond

D: Double Flemish bond



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Daily Class – 8:30 PM

Q: 68) In load-bearing wall, the depth of horizontal chassis should not exceed which one of the following?

A: 1/3 thickness of masonry

B: 1/4 thickness of masonry

C: 1/5 thickness of masonry

D: 1/6 thickness of masonry



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Daily Class – 8:30 PM

Q : 69) What is the optimum mortar mix type for maximum, masonry unit strength of $5 \, \text{N}/\text{mm}^2$

 $A:M_1$

 $B:M_2$

 $C: H_1$

 $D: H_2$



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Daily Class – 8:30 PM

Q: 70) When the corner of a brick is removed along the line joining mid-points of adjoining sides, the portion left is called

A: Closer

B : Squint brick

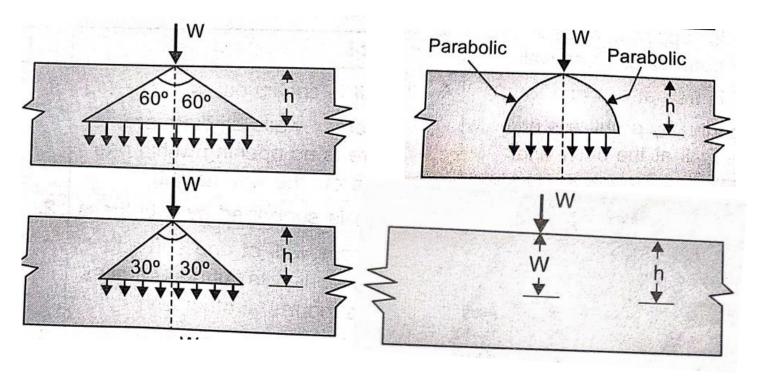
C: Queen closer

D: King closer

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Daily Class - 8:30 PM

Q:71) Which one of the following figures shows the permitted dispersion of concentrated load in masonry structures?





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Daily Class – 8:30 PM

Q:72) The function of coping is to serve as a

A: Covering to the wall to throw off water

B: Ornamental course between lintel level and roof level

C: Projection from a wall to support a structural member

D: Shade against solar radiation



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Daily Class – 8:30 PM

Q:73) For one cubic meter of brick masonry, the number of modular bricks needed is

A: 400 or less

B: 400 to 450

C: 500 to 550

D: 600 to 650



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Daily Class – 8:30 PM

Q: 74) Window sills in residential house are normally kept at

A: 83 to 90 cm above the floor level

B: 80 to 90 cm above the floor level

C: 78 to 88 cm above the floor level

D: 75 to 85 cm above the floor level



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Daily Class – 8:30 PM

Q:75) King closers are related to

A: Doors and windows

B: King posts truss

C: Queen post truss

D: Brick masonry



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Daily Class – 8:30 PM

Q: 76) In the cross-section of a timber, cambium layer can occur in

A: Inner bark and sap wood

B: Pith and heart wood

C: Sap wood and heart wood

D: Outer bark and sap wood



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Daily Class – 8:30 PM

Q:77) Gase(s) emitted during rotting or decomposition of timber is / are mainly

A: Methane and hydrogen

B: Hydrogen Sulphide

C: Carbonic acid and hydrogen

D: Ammonia



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Daily Class – 8:30 PM

Q: 78) AsCu, a preservative for wood, developed by the forest research Institute, Dehradun, comprises of chemicals: As_2O_5 . $2H_2O$, $CuSO_4$. $5H_2O$ and $K_2Cr_2O_7$ in the proportion of

A:1:1:1

B:1:2:3

C:1:2:4

D:1:3:4



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Daily Class – 8:30 PM

Q:79) Which IS code is used for classification of timber for seasoning purposes?

A: IS: 4970 - 1973

B: IS: 1708 - 1969

C: IS: 1141 - 1958

D: IS: 399 - 1963



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Daily Class – 8:30 PM

Q: 80) The radial splits which are wider on the outside of the log and narrower towards the pith are known as

A: Star shakes

B: Annular rings

C: Cup shakes

D: Heart shakes



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Daily Class – 8:30 PM

Q:81) How is the process of treatment of wood using a preservative solution and forcing air in at a pressure designated?

A: Rueping process

B: Lawry process

C: Full cell process

D: Empty cell process



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Daily Class – 8:30 PM

Q: 82) The moisture content of timber used in building frames can be

A: 2% to 5%

B: 8% to 12%

C: 12% to 18%

D: > 20%



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Daily Class – 8:30 PM

Q:83) As a natural material, timber is which one of the following?

A: Isotropic

B: Anisotropic

C: Homogeneous

D: Heterogeneous



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Daily Class – 8:30 PM

Q: 84) Shear strength of timber depends on which one of the following?

A: Lignin with fibres

B: Medullary rays

C: Heartwood

D: Sapwood



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Daily Class – 8:30 PM

Q: 85) The defect which develops due to uncontrolled and non uniform loss of moisture from wood is known as which one of the following?

A: Knot

B: Shake

C: Warping

D: Cross grain



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Daily Class – 8:30 PM

Q: 86) The maximum deflection in timber beams or joints should not be greater than

A: Span / 300

B: Span / 325

C: Span / 360

D: Span / 380



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Daily Class – 8:30 PM

Q: 87) Radial splits in timber originating from 'Bark' and narrowing towards the 'pith' are known as

A: Heart shakes

B: Star shakes

C: Cup shakes

D: Knots



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Daily Class – 8:30 PM

Q: 88) In paints, linseed oil is used as

A: A thinner

B: A drier

C: A vehicle

D: A water-proofing base



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Daily Class – 8:30 PM

Q:89) Which one of the following limes will be used for finishing coat in plastering and white washing?

A: Semi hydraulic lime

B: Kankar lime

C: Magnesium / dolomitic lime

D: Eminently hydraulic lime



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Daily Class – 8:30 PM

Q: 90) The carbonation process is demonstrated more by

A: Atmospheric corrosion

B: Chloride corrosion

C: Stress corrosion

D: Hydrogen embrittlement



Result: SSC JE 2019

Selected Candidates For DV From EverExam 100 + SELECTION











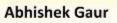












Swaraj Chauhan

Pankaj Gupta

Vaibhav Sharma

Randhir Das

Udayveer

Yuresh Singh

Saurabh

Ranvir Kumar

Mohd Zaid Raza Khan



Tarique Akhter Deepak Yadav



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