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Daily Class – 8:00 PM

Q : 1) Efflorescence test is conducted for burnt clay bricks to find out the

A : Presence of alkaline substance

B : Hardness

C : Soundness

D : Presence of cracks or holes



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Q : 2) Which component has highest percentage in good brick earth

A : Alumina

B : Lime

C : Silica

D : Oxide of iron

Q : 3) Which one of the correct sequence of various operations of preparation of brick earth

- I. Blending**
- II. Digging**
- III. Weathering**
- IV. Unsoiling**
- V. Tempering**

A : IV, II, III, V, I

B : IV, II, III, I, V

C : II, IV, V, III, I

D : II, III, IV, V, I

Q : 4) Jhama bricks are

A : Well burnt having smooth and even surface

B : Slightly over burnt having rough surface

C : Under burnt and can be easily broken

D : Over burnt with irregular shape



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Q : 5) Efflorescence in the bricks is caused due to

A : Alkalies

B : Organic matter

C : Iron

D : Lime

Q : 6) Frog is defined as a

A : Depression on the top face of brick

B : Top most course of plinth

C : Brick whose one end is cut splayed or mitered for the full width

D : Brick used for the corner of a wall

Q : 7) The range of alumina present in good brick earth by weight is

A : 5 to 10%

B : 20 to 30%

C : 40 to 46%

D : 50 to 70%



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Daily Class – 8:00 PM

Q : 8) The different efflorescence deposits are sulphates of-

A : Calcium

B : Sodium

C : Iron

D : Both (a) and (b)



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Daily Class – 8:00 PM

Q : 9) Which one of the following ingredients of the brick earth enables the brick to retain its shape

A : Alumina

B : Silica

C : Iron

D : Magnesia



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Daily Class – 8:00 PM

Q : 10) Refractory bricks resists

A : High temperature

B : Chemical reaction

C : Dampness

D : None of these



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Daily Class – 8:00 PM

Q : 11) Lime is mixed with brick earth to:

A : Impart plasticity

B : Increase durability

C : Prevent shrinkage

D : Increase permeability

Q : 12) The tolerance in the width of mould of mould of a class brick is about-

A : ± 3 mm

B : ± 6 mm

C : ± 10 mm

D : ± 12 mm

Q : 13) The compressive strength of heavy duty bricks should be more than-

A : 40 N/mm²

B : 20 N/mm²

C : 5 N/mm²

D : 3.5 N/mm²

Q : 14) Consider the following stages in the manufacturing of bricks

- 1. Weathering**
- 2. Moulding**
- 3. Tempering**

The correct sequence of these stages in the manufacturing of bricks

A : 1, 3, 2

B : 1, 2, 3

C : 2, 3, 1

D : 3, 2, 1



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Daily Class – 8:00 PM

Q : 15) Which of the following steps in the manufacturing bricks is carried out in pug mill?

A : Digging

B : Cleaning

C : Weathering

D : Tempering



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Daily Class – 8:00 PM

Q : 16) Charpy's V notch test is done on a building material to determine:

A : Brittleness

B : Abrasion

C : Hardness

D : Elasticity

Q : 17) A good brick earth should contain iron oxide in the range of:

A : 5 – 7%

B : 12 – 15%

C : 15 – 20%

D : 20 – 25%



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Daily Class – 8:00 PM

Q : 18) The main function of alumina in brick earth is to

A : Impart plasticity

B : Increase durability

C : Prevent shrinkage

D : Increase impermeability

Q : 19) The bricks after moulding should be dried in:

A : Open air

B : Sun for 3 to 8 days

C : Air for 3 to 8 days but not in sun

D : Hot air for 3 days



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Daily Class – 8:00 PM

Q : 20) The compressive strength of perforated bricks should not be less than:

A : 4 MN/m²

B : 5 MN/m²

C : 6MN/m²

D : 7 MN/m²



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Daily Class – 8:00 PM

Q : 21) Statement (I): Mud bricks can be completely replaced by Fly ash lime-gypsum (Fa-G) bricks in building.

Statement (II): Useful fertile soil is used in manufacturing of mud bricks, causing high CO² release in the atmosphere.

A : Both statements – I and statements-II are individually true and statement-II is the correct explanation of statement-I

B : Both statements-I and statement-II are individually true and statement-II is the NOT correct explanation of statement-I

C : Statement-I is true but statement-I

D : Statement-I is false but statement-II is true.

Q : 22) Consider the following statements:

- 1. IS 3583 refers to burnt clay paving bricks**
- 2. IS 5779 refers to burnt clay soling bricks**
- 3. IS 3952 refers to burnt clay hollow bricks**
- 4. IS 2222 refers to burnt clay bricks**

Which of the above statements are correct?

A : 1, 2 and 3 only

B : 1, 2 and 4 only

C : 3 and 4 only

D : 1, 2, 3 and 4

Q : 23) 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 – 8:00 PM

Q : 24) In sand moulding, the top flash is known as:

A : Cope

B : Drag

C : Fillet

D : Cheek



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Daily Class – 8:00 PM

Q : 25) The bureau of Indian standards (BIS) has classified the common burnt clay bricks on the basis of

A : Compressive strength

B : Size of the brick

C : Water absorption capacity

D : Efflorescence on brick



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Daily Class – 8:00 PM

Q : 26) A bull nose brick is not used for:

A : Rounding off sharp

B : Pillars

C : Decoration purpose

D : Arches



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Daily Class – 8:00 PM

Q : 27) The brick piece obtained by cutting a triangular portion of the brick such that half a headers and half a stretcher are obtained on adjoining cut faces is called as:

A : Queen closer

B : Mitred closer

C : King closer

D : Three-quarter bat



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Daily Class – 8:00 PM

Q : 28) 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 – 8:00 PM

Q : 29) The position of brick cut to form angles other than right angles in plan, is known as

A : Queen closer

B : King closer

C : Closer

D : Squinty closer



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Daily Class – 8:00 PM

Q : 30) The brick in which corner is cut so as to get header and half stretcher is called:

A : King closer

B : Queen closer

C : Half bat

D : $3/4^{\text{th}}$ bat

Q : 31) The shape of the brick gets deformed due to rain water falling on hot brick. This defect is known as:

A : Bloating

B : Chuff

C : Lamination

D : Nodule



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Daily Class – 8:00 PM

Q : 32) When a brick is cut into two halves along its length, one Portion of it is known as:

A : Mitred closer

B : Queen closer

C : King closer

D : Cornica brick

Q : 33) The modulus of rupture of a good brick should be about (in N/mm^2)

A : 2.5

B : 5.0

C : 8.0

D : 10.0



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Daily Class – 8:00 PM

Q : 34) Efflorescence of bricks is due to

A : Soluble salts present in clay for making bricks

B : High porosity of bricks

C : High silt content in brick earth

D : Excessive burning of bricks

Q : 35) The Indian standard code that is used for checking the compressive strength test of lime is:

A : IS 10262 : 2000

B : IS 2907 : 1998

C : IS 6923 : 1973

D : IS 456 : 2000



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Daily Class – 8:00 PM

Q : 36) Hydraulic lime is obtained by:

A : Burning of limestone

B : Calcination of pure clay

C : Burning of kankar

D : Adding water to quick lime

E : None of the above options



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Daily Class – 8:00 PM

Q : 37) For construction of structure under water, the lime used is-

A : Pure lime

B : Quick lime

C : Fat lime

D : Hydraulic lime



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Daily Class – 8:00 PM

Q : 38) The commonly used lime in white washing is:

A : Hydraulic lime

B : Fat lime

C : Plain lime

D : None of these

Q : 39) When fat lime is slaked, its volume-

A : Decreases to 50%

B : Remains same

C : Increases by 2 to 2.5 times

D : Increases by 4 times after slaking



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Daily Class – 8:00 PM

Q : 40) Surkhi is added to lime mortar to

A : Prevent shrinkage

B : Decrease setting time

C : Increase bulk

D : Impart hydraulicity

Q : 41) Consider the following statements above lime

- (1) Calcination of limestone results in quick lime.**
- (2) Lime produced from pure variety of chalk is hydraulic lime**
- (3) Hydrated lime is obtained by treating quick lime with water.**

Which of the above statements are correct?

- A : 1, 2 and 3**
- B : 1 and 2 only**
- C : 2 and 3 only**
- D : 1 and 3 only**



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Daily Class – 8:00 PM

Q : 42) 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

Q : 43) The lime which sets on absorbing CO_2 from atmosphere is

A : Lean lime

B : Feebly hydraulic lime

C : Rich lime

D : Fat lime



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Daily Class – 8:00 PM

Q : 44) As per IS 712 lime is classified into how much categories?

A : 4

B : 6

C : 9

D : 3



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Daily Class – 8:00 PM

Q : 45) The initial setting time for class 'A' lime is minimum:

A : 15 minutes

B : 30 minutes

C : 120 minutes

D : 600 minutes



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Daily Class – 8:00 PM

Q : 46) Karstification is observed in:

A : Mudstone area

B : Limestone terrains

C : Sandstone terrains

D : Gneissic terrains

Q : 47) According to Indian standards, which of the following classes of limes can primarily be used for structural purposes?

A : Class C (Fat lime)

B : Class D (Dolomitic lime)

C : Class B (Semi-hydraulic lime)

D : Class A (Eminently hydraulic lime)

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