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Q:) The quantity of gun powder required for a rock whose line of least resistance (LLR) is 1m, is about:

A : 100 gm

B : 125 gm

C : 150 gm

D : 175 gm



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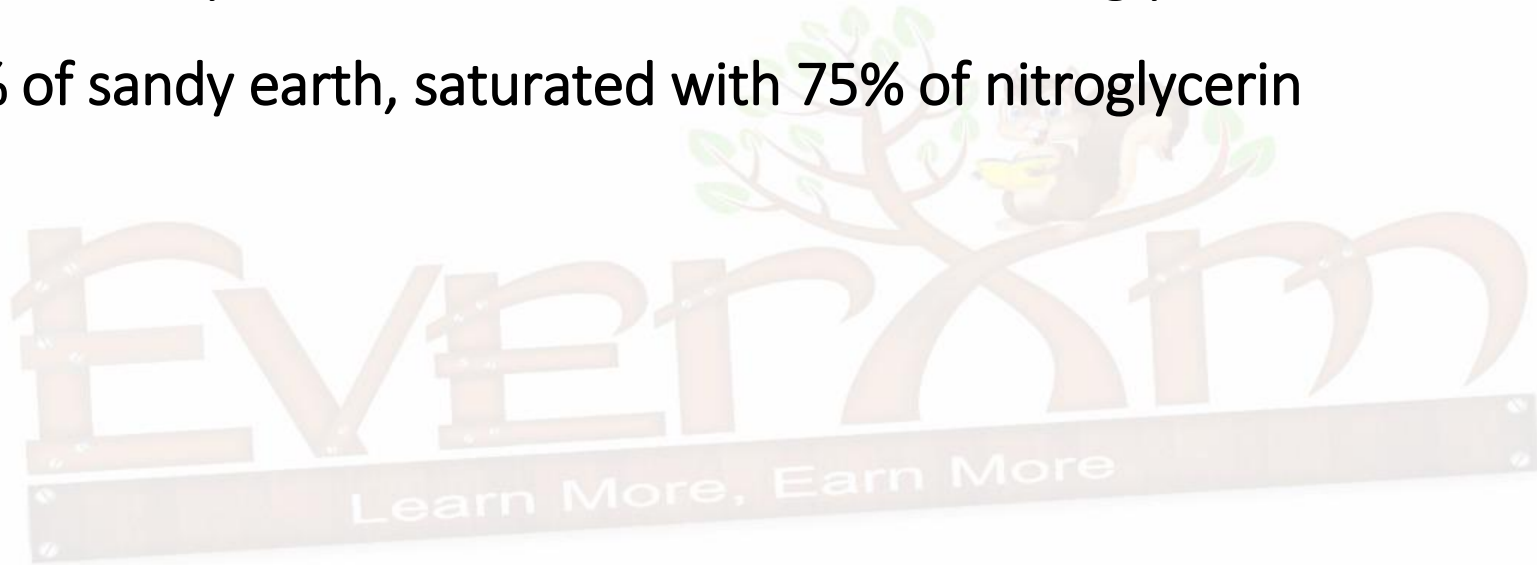
Q:) The gun powder consists of:

A : 75% of sandy earth, saturated with 25% of nitroglycerin

B : 60% of sandy earth, saturated with 40% of nitroglycerin

C : 50% of sandy earth, saturated with 50% of nitroglycerin

D : 25% of sandy earth, saturated with 75% of nitroglycerin



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Q:) About 66% of silicon and 27% of alumina are contained in:

A : Loamy clay

B : Calcareous clay

C : Pure clay

D : None of these



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Q:) Which one of the following sequence of steps is correct for preparing the clay for making bricks?

A : Weathering-Blending-Tempering

B : Blending-Tempering-Weathering.

C : Tempering-Weathering-Blending

D : None of these is correct



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Q:) Which one of following kilns is not a continuous kiln?

A : Bull's trench kiln

B : Hoffman's kiln

C : Tunnel's kiln

D : Intermittent kiln



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Q:) Bricks are laid not to be subjected to:

A : Tensile stresses

B : Compressive to stresses

C : Shear stresses

D : All by these stresses`



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Q:) Construction bricks are classified into:

A : Four categories

B : Five categories

C : Three categories

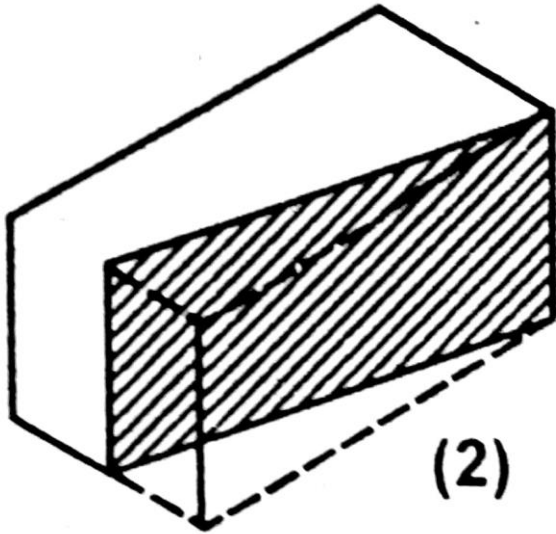
D : Two categories



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Q:) The brick shown in the figure(2) is called



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- A : A chamfered brick
- B : A mitred closer
- C : A saddle leak brick
- D : A bull nose brick

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Q:) The minimum compressive strength of class B lime with lime sand.

A : Should be 12.50kg/cm² after 14 days

B : Should be 17.50 kg/cm²after 28 days

C : Both (a) and (b)

D : Neither(a) nor (b)



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Q:) The calcium sulphate(CaSO_4):

A : Is not an ingredient of cement in the form of gypsum

B : Increase the initial setting time of cement

C : Decrease the initial setting time of cement

D : All of these.



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Q:) Which of the following statements is/are correct regarding the strength of cement?

1. Particle sizes less than $3 \mu\text{m}$ increases the viscous nature of the cement.
2. Finer particles in cement can be replaced by fly-ash to improve the strength.

A : 1 only

B : 2 only

C : Both 1 and 2

D : Neither 1 nor 2



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Q:) 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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Q:) Consider the following statements:

1. Hydrophobic cement grains possesses low wetting ability
2. Rapid-hardening cement is useful in concreting under static, or running water
3. Quick-setting cement helps concrete to attain high strength in the initial period
4. White cement is just a variety of ordinary cement free of colouring oxides.

Which of the above statements are correct?

A : 1 and 4 only

B : 1 and 3 only

C : 2 and 4 only

D : 2 and 3 only

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Q:) Hydration of which compound is responsible for increase in strength of cement in later age?

A : Tri-calcium Aluminate (C_3A)

B : Tetra-calcium Aluminoferrite (C_4AF)

C : Tri-calcium Silicate (C_3S)

D : Di-calcium Silicate (C_2S)



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

A : Quick setting Portland cement

B : White and colored cement

C : Calcium chloride cement

D : Water repellent cement



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Q:) Consider the following data for concrete with mild exposure:

Water-cement ratio = 0.50

Water = 191.6 litre

The required cement content will be

A : 561 kg/m³

B : 472 kg/m³

C : 383 kg/m³

D : 294 kg/m³



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

A : 1 year

B : 2 year

C : 5 year

D : 6 months



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Q:) In handling air-entraining admixture the beneficial amount of entrained air depends upon certain factors like

1. Type and quantity of air-entraining agent
2. Water-cement ratio of the mix
3. Strength of aggregates
4. Extent of compaction of concrete

A : 1, 2 and 3 only

B : 1, 2 and 4 only

C : 1, 3 and 4 only

D : 1, 2, 3 and 4



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Q:) Consider the following statements:

1. Rich mixes are less prone to bleeding than lean ones
2. Bleeding can be reduced by increasing the fineness of cement

Which of the above statements is/are correct?

A : 1 only

B : 2 only

C : Both 1 and 2

D : Neither 1 nor 2



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