

Q. Broken bricks or stone chips are also called:

- (a) Brokomite**
- (b) Scrap**
- (c) Spall**
- (d) Wastage**

Q. Rocks having silica as main constituent are called-

- (a) Calcareous rocks**
- (b) Argillaceous rocks**
- (c) Silicious rocks**
- (d) None of these**

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Q. Trap is a

- (a) Metamorphic rock**
- (b) Igneous rock**
- (c) Granite rock**
- (d) Sedimentary rock**

Q. Argillaceous rocks have their main constituent as-

- (a) Carbonates of lime**
- (b) Clay or alumina**
- (c) Silica or sand**
- (d) All of these**

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Q. Identify the geological classification of rocks.

- (a) Calcareous, argillaceous and silicious**
- (b) Organic, semi-organic and inorganic**
- (c) Igneous, sedimentary and metamorphic**
- (d) Stratified, unstratified and foliated**

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Q. Granite and rhyolite are examples of which of the following?

- (a) Sedimentary rocks**
- (b) Stratified rocks**
- (c) Igneous rocks**
- (d) Metamorphic rocks**

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Q. Which of the following has least bearing capacity

- (a) Har rocks**
- (b) Dolerite**
- (c) Basalt**
- (d) All of above**

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Q. Which one of the following rocks is used for ornamental buildings:

- (a) Granite**
- (b) Marble**
- (c) Sand stone**
- (d) Slate**

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Q. The stone is said to be high if the toughness index of the stone in the impact test is:

- (a) Less than 9/9**
- (b) More than 9/9**
- (c) Less than 19/19**
- (d) More than 19/19**

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Q. Pegmatite is an example of

- (a) Sedimentary rock**
- (b) Extrusive igneous rock**
- (c) Intrusive igneous rock**
- (d) Metamorphic rock**

Q. The most suitable stone for building piers is

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- (a) Marble**
- (b) Lime stone**
- (c) Granite**
- (d) Sand stone**

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Q. For stones Mohs scale is used to determine

- (a) Toughness**
- (b) Hardness**
- (c) Flakiness index**
- (d) Durability**

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Q. Smith's test is performed to determine:-

- (a) Durability**
- (b) Crushing strength**
- (c) Wear**
- (d) Soluble minerals**

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Q. A brick which is given a wedge like shape to be used in the construction of arches is called-

- (a) King closer**
- (b) Cornice brick**
- (c) Queen closer**
- (d) Voussoir**

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Q. Dolomite is a lime stone that contains carbonate of magnesia up to:

- (a) 35%**
- (b) 15%**
- (c) 25%**
- (d) 45%**

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Q. Specific gravity for most of the building stones lies between

- (a) 1.5 to 2.0**
- (b) 2.0 to 2.5**
- (c) 2.5 to 3.0**
- (d) 3.0 to 3.5**

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Q. A corner stone having two faces made plane is known as

- (a) Quoins**
- (b) Eluvium**
- (c) Diluvium**
- (d) Rubble**

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Q. The important test to be conducted on a stone used in docks and harbours is :

- (a) Hardness test**
- (b) Workability test**
- (c) Weight test**
- (d) Toughness test**

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Q. For railway ballast, the stone should be:

- (a) Soft with a uniform texture**
- (b) Hard, heavy, strong and durable**
- (c) Hard, tough, resistant to abrasion and durable**
- (d) Hard, dense, durable, tough and easily workable**

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Q. Spalling hammer is used for

- (a) Driving wooden headed chisels**
- (b) Rough dressing of stones**
- (c) Carving of stones**
- (d) Breaking small projection of stones**

Q. Cross cut saw is used for-

- (a) Cutting soft stones**
- (b) Cutting har stones**
- (c) Cutting large blocks of stones**
- (d) Dressing stones**

Q. Bauxite bricks are

- (a) Ordinary fire bricks**
- (b) Basic refractory bricks**
- (c) Acid refractory bricks**
- (d) Neutral refractory bricks**

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

- (a) Chuffs**
- (b) Bloating**
- (c) Nodules**
- (d) Lamination**

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Q. Which of the following bricks are used for acidic lining?

- (a) Refractory bricks**
- (b) Silica bricks**
- (c) Both the above**
- (d) None of the above**

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Q. To which category do the chromite bricks belong?

- (a) Ordinary fire bricks**
- (b) Acid refractory bricks**
- (c) Basic refractory bricks**
- (d) Neutral refractory bricks**

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Q. Swelling of bricks is known as-

- (a) Bulking**
- (b) Bladdening**
- (c) Bloating**
- (d) None of the above**

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Q. Bricks are burnt at a temperature range of

- (a) 500° to 700°C**
- (b) 700° to 900°C**
- (c) 900° to 1200°C**
- (d) 1200° to 1500°C**

Q. The process of mixing clay, water and other ingredients to make rick is called-

- (a) Moulding**
- (b) Tempering**
- (c) Pugging**
- (d) Blending**

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Q. The crushing strength of I class brick should not be less than-

(a) 35 kg/cm²

(b) 70 kg/cm²

(c) 105 kg/cm²

(d) 140 kg/cm²

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Q. Bullnose bricks are not used in

- (a) Walls**
- (b) Rounding off sharp corners**
- (c) Arches**
- (d) Pillars**

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Q. The board used for providing frog in bricks is known as-

- (a) Pallet board**
- (b) Laminboard**
- (c) Fibre board**
- (d) Stock board**

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Q. The over ground continuous kiln is called-

- (a) Bull's trench kiln**
- (b) Hoffman's kiln**
- (c) Tunnel kiln**
- (d) All of the above**

Q. 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. Queen closer may be placed

(a) In header course

(b) In stretcher course

(c) In header course next to first brick

(d) In stretcher course next

Q. The exterior angle between outer faces of a wall, is known as

- (a) Turn**
- (b) Junction**
- (c) Quoin**
- (d) All of the above**

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Q. The pressure acting on the stones in stone masonry construction should be-

- (a) Along the direction of bedding planes**
- (b) At 45° to the direction of bedding planes**
- (c) At 60° to the direction of bedding planes**
- (d) Perpendicular to the direction of bedding planes**

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Q. The aggregate is said to be elongated when-

- (a) Its least dimension is three-fifth of its mean dimension**
- (b) Its least dimension is equal to its mean dimension**
- (c) Its length is equal to its dimension**
- (d) Its length is equal to 1.8 times its mean dimension**

Q. The bulking of aggregate due to

- (a) Moisture content**
- (b) Voids**
- (c) Both the above**
- (d) None of the above**

Q. Poisson's ratio of cement concrete is about-

- (a) 0.50**
- (b) 0.28**
- (c) 0.15**
- (d) 0.40**

Q. Which of the following tests is/ are included in acceptance criterion of concrete?

- (a) Modulus of rupture test at 7 days**
- (b) Compressive strength test at 7 days**
- (c) Compressive strength test at 28 days**

Choose the answer from the codes given below:

- (i) 1 & 3**
- (ii) 1 & 2**
- (iii) 1, 2, & 3**
- (iv) Only 3**

Q. The ordinary concrete is not used for.....

(a) M 10

(b) M 20

(c) M 25

(d) M 40

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Q. The increase in strength of concrete after six months is generally-

- (a) 5%**
- (b) 10%**
- (c) 15%**
- (d) 20%**

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- Q. Tensile of concrete is measured by-**
- (a) Direct tension test in the universal testing machine**
 - (b) Applying compressive load along the diameter of the cylinder**
 - (c) Applying third point loading on a prism**
 - (d) Applying tensile load along the diameter the cylinder**

Q. M 20 grade of concrete corresponds approximately to:

- (a) 1 : 2 : 4 mix**
- (b) 1 : 1 $\frac{1}{2}$: 3 mix**
- (c) 1 : 3 : 6 mix**
- (d) 1 : 4 : 8 mix**

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Q. The concrete in which no preliminary test are performed for designing the mix is called

- (a) Rich concrete**
- (b) Controlled concrete**
- (c) Lean concrete**
- (d) Ordinary concrete**

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Q. Which of the following is not a non-destructive testing method used for concrete?

- (a) Rebound Hammer**
- (b) Ultrasonic Pulse Velocity**
- (c) Core Testing**
- (d) Falling weight Deflectometer Test**

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Q. After casting, an ordinary cement concrete on drying-

- (a) Shrinks**
- (b) Expands**
- (c) Remains**
- (d) Swells**

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Q. The concrete mix used in building construction for beams and roofs is:

- (a) M 10**
- (b) M 20**
- (c) M 30**
- (d) M 40**

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Q. For D.P.C. at plinth level, the commonly adopted material is :

- (a) Cement concrete**
- (b) Bitumen sheeting**
- (c) Mastic asphalt**
- (d) Plastic sheeting**

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Q. Green concrete may be made by adding

- (a) Chromium oxide**
- (b) Iron hydroxide**
- (c) Barium permanganate**
- (d) Iron oxide**

Q. Aggregates may be classified according to their

- (a) Shape**
- (b) Unit weight**
- (c) Size**
- (d) All of the above**

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Q. The ratio of the volume of moist sand to the volume of dry sand is known as-

- (a) Crushing value**
- (b) Impact value**
- (c) Bulking factor**
- (d) None of these**

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Q. The increase in volume of dry sand when water is added is called-

- (a) Honey combing**
- (b) Bulking**
- (c) Segregation**
- (d) Bleeding**

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- Q. Liquefaction of sand is-**
- (a) Sand enhance its shear strength due to oscillatory motion**
 - (b) Sand loses its shear strength due to oscillatory motion**
 - (c) Sand enhances its bearing capacity due to oscillatory motion**
 - (d) None of these**

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Q. An aggregate is said to be flaky if its least dimension is less than.....

- (a) $2/3$ mean dimension**
- (b) $3/4$ mean dimension**
- (c) $3/5$ mean dimension**
- (d) $5/8$ mean dimension**

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Q. The bulk density of aggregates does not depend upon

- (a) Size and shape of aggregate**
- (b) Specific gravity of aggregates**
- (c) Grading of aggregates**
- (d) Size and shape of the container**

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Q. The type of aggregates not suitable for high strength concrete and for pavements subjected to tension, is-

- (a) Rounded aggregate**
- (b) Irregular aggregate**
- (c) Angular aggregate**
- (d) Flaky aggregate**

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Q. When percentage of mica present in sand is large, it-

- (a) Reduces the strength of mortar, or concrete**
- (b) Increases the strength of mortar, or concrete**
- (c) Has no effect on mortar, or concrete strength**
- (d) Enhances the strength of mortar, or concrete strength**

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