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Q : 1) Shielding glass consists high content of

A : Lead oxide

B : Manganese dioxide

C : Tin oxide

D : Cobalt oxide

Q : 2) Bullet proof glass is made of thick glass sheet sandwiched by a layer of-

A : Steel

B : Stainless steel

C : Vinyl plastic

D : Chromium plate

Q : 3) Original plastic material without fiber reinforcement is called '

A : Composite

B : Admixture

C : Binding agent

D : Virgin plastic

Virgin plastic is exactly what you think it is. It's plastic resin that has been newly created without any recycled materials. This type of plastic made of Natural gas or crude oil → order to make New brand of plastic

Q : 4) The glass which is required for computer revolution?

A : Crete glass (Glass + fibre wood frame)

B : Vital glass

C : Borate glass (Air tetrahedron)

D : Rubbed glass

Like the soda-lime glass found in windowpanes or food and beverage containers, borosilicate glass is made primarily from silicon dioxide, the main constituent of sand

Q : 5) Polyvinyl chloride (PVC) is a

A : Thermosetting material

B : Elasto-plastic material

C : Thermoplastic material

D : Rigid plastic material

Q : 6) The glass articles, after manufactured, are to be cooled down slowly and gradually. The process of slow and homogenous cooling of glass articles is known as

A : Annealing

B : Blowing

C : Rolling

D : Spinning

Glass blowing is a glass forming technique that humans have used to shape glass since the 1st century B.C. The technique consists of inflating molten glass with a blowpipe to form a sort of glass bubble, that can be molded into glassware for practical or artistic purposes.

The base of this glass is designed to spin in place without toppling your drink. This creates an eye-catching effect with a purpose—the spinning action helps aerate whiskey, which opens up flavor and aroma.

Q : 7) Statement (I) : Foam glass is extensively used in air-conditioning units.

Statement (II) : Foam glass is termite proof and non-combustible.

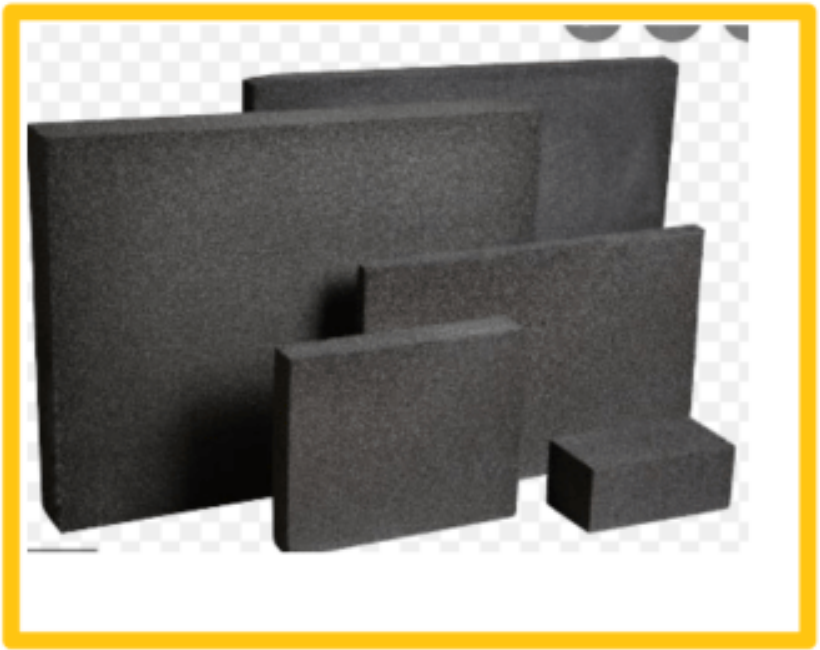
A : Both statements – I and statements-II are individually true and statement-II is the correct explanation of statement – I

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

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

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

Foamglas is a cellular glass insulation material that's impervious to moisture, inert, resistant to insects and vermin, strong, and reasonably well-insulating (R-3.44 per inch). It can be used for insulating roofs, walls, and below-grade applications, including beneath slabs.



foam glass, lightweight, opaque glass material having a closed-cell structure. It is made in molds that are packed with crushed or granulated glass mixed with a chemical agent such as carbon or limestone.

Q : 8) Normally the tensile strength of glass varies between

A : 28 kg/cm^2 to 56 kg/cm^2

B : 280 kg/cm^2 to 560 kg/cm^2

C : 2800 kg/cm^2 to 5600 kg/cm^2

D : 28000 kg/cm^2 to 56000 kg/cm^2

Q : 9) Which of the following would you normally use for water proofing?

A : Limestone

B : Calcium

C : Mastic asphalt

D : None of the above

It consists of a graded limestone aggregate, bound together with asphaltic cement (i.e. bitumen), heated to 210 degrees C and applied by qualified installers with a wooden float.

mastic asphalt floors are similar to the bitumen modified cementitious floors but they are generally laid at a minimum of 25 mm thickness and tend to deform and corrugate in service under heavy loads.

Q : 10) By calcining and smelting iron ores, a crude and impure form of iron obtained is known as –

A : Cast iron

B : Wrought iron

C : Steel

D : Pig iron

Pig iron, also known as crude iron, is an intermediate product of the iron industry in the production of steel which is obtained by smelting iron ore in a blast furnace. ... When the metal had cooled and hardened, the smaller ingots (the "pigs") were simply broken from the runner (the "sow"), hence the name "pig iron".

The main difference between cast iron and pig iron is that: (A) Cast iron is purest form of iron while pig iron is impure. ... - Pig iron is the iron obtained from the blast furnace and it contains about 4% of carbon as impurity.

Q : 11) Vanadium steel is normally used in the manufacturing of

A : Axle and springs

B : Ball bearings

C : Magnets

D : Railway switches and crossings

Chromium-vanadium steel (symbol Cr-V or CrV; 6000-series SAE steel grades) is a group of steel alloys incorporating carbon (0.50%), manganese (0.70-0.90%), silicon (0.30%), chromium (0.80-1.10%), and vanadium (0.18%). Some forms can be used as high-speed steel.

Vanadium-steel alloys are used to make extremely tough tools such as axles, armor plates, car gears, springs, cutting tools, piston rods and crankshafts. Vanadium alloys are also used to make nuclear reactors because of their low-neutron-absorbing properties, according to the Royal Society of Chemistry.

Q : 12) How much is the carbon content (%) in hard – steel?

A : 0.5 – 0.8

B : 0.8 – 1.5

C : 0.3 – 0.5

D : 0.15 – 0.3

Q : 13) The paints that are most resistant to fire are:

A : Enamel paints

B : Aluminium paints

C : Asbestos paints

D : Cement paints

is a naturally occurring fibrous silicate mineral. There are six types, all of which are composed of long and thin fibrous crystals, each fibre being composed of many microscopic "fibrils" that can be released into the atmosphere by abrasion and other processes.

Aluminum paint is one kind of coating paint produced from aluminum paste and a film-forming vehicle (e.g., varnish). It consist of both a resin base and solid flecks of aluminum. The resin helps the paint to flow and gives it durability and strength. The aluminum flakes produce a shiny metallic finish.

Aluminium paint is a coating material which is made from a mixture of oil varnish and aluminium pigment in the form of thin flakes which overlap in the paint film and which reflects the sun's radiation well and retains the heat in hot-air or hot-water pipes or tanks

Enamel paints contain petroleum spirit, white lead, oil, and resinous materials. These paints are resistant to acids, alkalis, and water.

Enamel paint is mostly used for painting the exterior walls of the house while acrylic paint is used to paint the interior of the house. Enamel paint finish takes a comparatively longer period to dry than acrylic paint. Enamel paint is an oil-based paint finish while acrylic paint is a water-based paint.

Q : 14) Paints with white lead base are suitable for painting of :

A : Wood work

B : Iron work

C : Both wood and iron work

D : None of the above

Q : 15) Duco paint is :

A : Water paint

B : Cellulose paint

C : Bituminous paint

D : Oil paint

Duco paint is a premium quality air drying paint, which is ideal for all types of metal and wood surfaces. It dries off faster and has excellent colour retention, therefore, preferred by house painters. ... This is one of the premium finishes for any wooden and metal surface for a painting services project.

Q : 16) The vehicle used in case of enamel paints is usually –

A : Kerosene

B : Varnish

C : Water

D : None of these

Q : 17) Most commonly used solvent in oil paints is :

A : Petroleum

B : Spirit

C : Coal-tar

D : Turpentine

Oil paint is a type of slow-drying paint that consists of particles of pigment suspended in a drying oil, commonly linseed oil. The viscosity of the paint may be modified by the addition of a solvent such as turpentine or white spirit, and varnish may be added to increase the glossiness of the dried oil paint film.

Q : 18) How much is the covering capacity of cement paint?

A : About 18 m^2/kg per coat

B : About 20 m^2/kg per coat

C : About 12 m^2/kg per coat

D : About 4 m^2/kg per coat

AREA OF APPLICATION: Interior /exterior surface, asbestos sheet concrete brick wall and sand faced plaster
METHOD OF APPLICATION: Brush & Spray
THINER: Potable water
PRIMER: Decorative Cement Paint does not require any primer coat but the coat of the same Provide the best results.
COVERING CAPACITY: 3.5-4.5 Sq mt./kg/2/ coat for plane surface covering capacity will depend on surface and surface texture
DRYING TIME (30-32 C):6-8 Hrs.& OTHER COAT(After 8 hrs.)
FINISH: Smooth Matt and Beautiful

SHADE OFFERED: As per Shade card

PACKING AVAILABLE: 20KG

Q : 19) Linseed oil in paint is used as a :

A : Thinner

B : Pigment

C : Vehicle

D : Base

Copal, lac, or Shellac, and rosin

Q : 20) Resins are –

A : Not soluble in water

B : Soluble in spirit

C : Used in varnishes

D : Left behind on evaporation of oil

$$PVC = \frac{\text{Vol. of pigment in paint}}{\text{Vol. of non vapourise matter}}$$

Q : 21) Which of the following range of pigment volume concentration number is recommended for paint of exterior surfaces of a house?

OR

Which of the following range of pigment volume concentration number is recommended for paint for prime coat on metal?

A : 28 – 40

B : 40 – 50

C : 50 – 60

D : 60 – 70

type of **Coating**	PVC (%)
Automotive clearcoat	< 5
High gloss white topcoat	15 - 25
Anti-corrosion primer	25 - 65
Interior matt wall paint	> 85

375 × 203

Q : 22) When the final coat of paint has not sufficient the background is clearly seen. This is known as

A : Grinning

B : Bloom

C : Wrinkling

D : Flaking

Flaking

When moisture penetrates and the paint lifts up, flaking occurs. It is visible on wooden, metal and galvanized surfaces.

. Grinning

The paint film should be opaque enough to cover the background surface. The visibility of background due to insufficient opacity of paint film even after the final coat is called as grinning.

Blooming

Blooming is the defect caused due to improper ventilation, weathering, defective paint, etc. In this case, dull patches are formed on the painted surface.

Wrinkling

Wrinkling occurs when a thick layer of paint is to be coated on the surface. In this case, the paint film gets shrinks and develops crawls on the surface as shown in the picture. It can be prevented by allowing the undercoat to dry completely prior to the application of the final coat.

Blistering and Peeling

Blistering and peeling are defects in which swelling of the paint film occurs. The swelling is caused by the formation of an air bubble under the paint film due to the presence of moisture or oil or grease matter.

Q : 23) Turpentine oil is used in paints as a

A : Base

B : Drier

C : Thinner

D : Vehicle

Q : 24) Which of the following paints recommended for use on stucco plaster, brick and masonry surface?

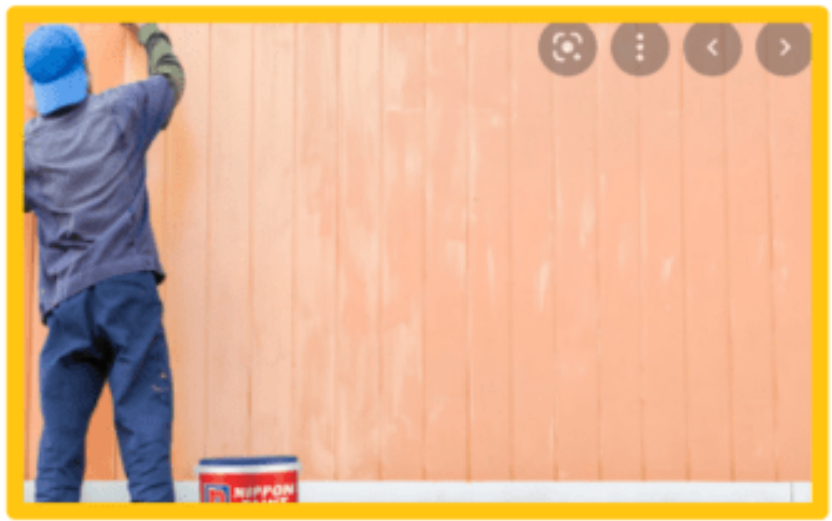
A : Enamel paints

B : Emulsion paints

C : Plastic paints

D : Oil paints

Emulsion paint is water-based paint, which contains small polymer particles that have pigments inside. ... After the paint dries, the particles combine, producing a film of paint on the wall. Emulsion paint can be used for the exterior as well as the interior of the house.



Q : 25) The carrier in case of distemper is :

A : Linseed oil

B : White lead

C : Poppy oil

D : Water

Q : 26) Spirit varnish generally consists of :

A : Oil, wax and resin

B : Alcohol, wax and turpentine

C : Pigment and synthetic resin

D : Spirit and shellac

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