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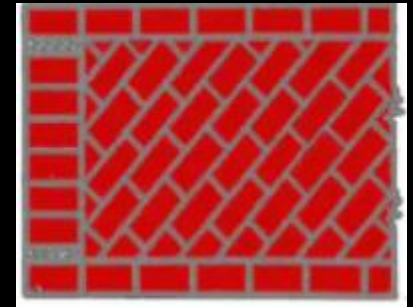
Q : 1) A type of bond in the brick masonry in which each course consists of alternates headers and stretchers is

A : English bond

B : Raking bond

C : Dutch bond

D : Flemish bond



Q : 2) Quoins in brick masonry are

A : bricks cut a corners in a triangular fashion

B : half-brick with length same but width halved

C : squint junction of walls

D : corner junction of walls

Q : 3) If r is rise and g is going of stairs, the empirical formula used to fix rise and going is $2r + g$ and it should be between

A : 500 mm-600 mm

B : 550 mm-650 mm

C : 600 mm-650 mm

D : 650 mm-700 mm

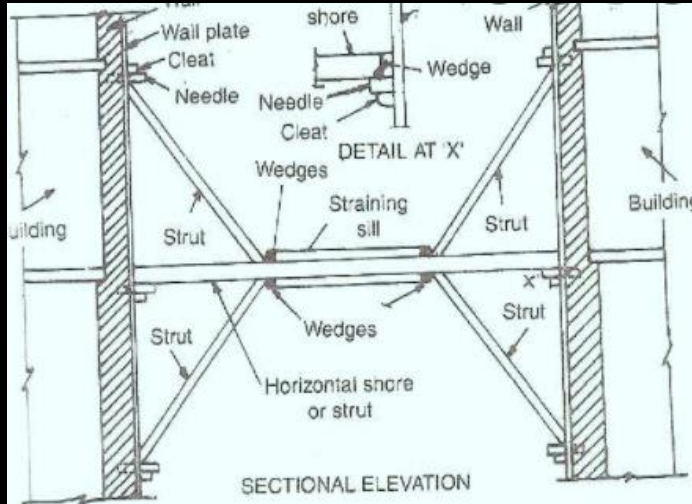
Q : 4) Maximum size of coarse aggregate used as base coarse in ground floor is

A : 12 mm

B : 20 mm

C : 40 mm

D : 50 mm



Q : 5) Flying shores are used to strengthen

A : single wall

B : two adjacent walls

C : tall walls

D : Any of the above

Q : 6) When large openings are to be made in existing wall, the type of temporary work used is

A : raking shore

B : flying shore

C : dead shore

D : underpinning

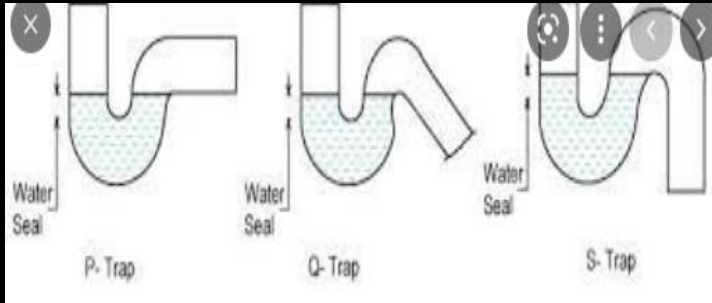
Q : 7) Water requirement per day per bed in a hospital is

A : 45 lites

B : 135 litres

C : 270 litres

D : 340 litres



Q : 8) Which of the following is not a type of trap used in plumbing?

A : p-type

B : q-type

C : s-type

D : z-type

Q : 9) The cement to dry sand proportion recommended for plastering concrete surface is

A : 1:3

B : 1:6

C : 1:8

D : 1:10

Q : 10) Gauged cement mortar consists of

A : cement and sand

B : cement, surkhi and sand

C : cement, lime and sand

D : cement, cinder and sand

Q : 11) Impact value of stone for road work specified is

A : wearing coat 30%

B : bituminous macadam 35%

C : water-bound macadam 40%

D : All of the above

Q : 12) Which one of the following does not belong to endogenous trees?

A : Teak

B : Coconut

C : Bamboo

D : Cane

Q : 13) Alumina in brick earth gives the brick's

A : strength

B : colour

C : plasticity

D : resistance to shrinkage

Q : 14) Pallet board is used

A : to make frog in the brick

B : to mount the mould

C : for table moulding of brick

D : None of the above

Q : 15) 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

Q : 16) The process of adding water to quicklime in order to convert it into hydrated lime is known as

A : quenching

B : hydration

C : calcination

D : slaking

Q : 17) Rotary kiln used in manufacturing cement rotates at a speed of

A : 1 r.p.m. - 3 r.p.m.

B : 10 r.p.m. - 12 r.p.m.

C : 18 r.p.m. - 22 r.p.m.

D : more than 25 r.p.m.

Q : 18) Fineness modulus is

A : the ratio of fine aggregates to coarse aggregate

B : the ratio of fine aggregates to total aggregate

C : an index which gives the mean size of the aggregates used in a mix

D : None of the above

List-I (Parts of exogenous tree)	List-II (Character)
A.Cambium layer	1.Youngest layer
B.Pith	2.Innermost part
C.Heartwood	3.Thin layer of fresh sap
D.Sapwood	4.Portion surrounding pith

Q : 19) Match List-I with List-II and select the correct answer using the codes given below the lists:

Codes:

A : A-1,B-2,C-3,D-4

B : A-3,B-2,C-4,D-1

C : A-4,B-1,C-3,D-2

D : A-1,B-3,C-2,D-4

Q : 20) 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

Q : 21) The compressive strength of high duty bricks should be more than

A : 40 N/mm²

B : 20 N/mm²

C : 5 N/mm²

D : 3.5 N/mm²

Q : 22) If f is the focal length, i is the stadia hair interval and d is the distance between the optical centre of the object lens, the multiplying constant is

A : f/i

B : $f + d$

C : $(f/i)+d$

D : $f + id$

Q : 23) In a tacheometry, if intercept taken on a vertically held staff is inclined at q to horizontal, the horizontal distance is

A : $ks + c$

B : $ks \cos q + c \cos q$

C : $ks \cos 2q + c \cos q$

D : $ks \sin 2q + c \sin q$

Q : 24) In external focusing telescope with an anallatic lens, for tacheometric survey, the additive constant is

A : zero

B : 0.1 m

C : 0.3 m

D : 0.5 m

Q : 25) In a sag curve, a minimum of stoppage distance is determined with assumptions of headlight _____ and beam titled at an upward angle of _____.

A : 1.0 m and 2°

B : 0.75 m and 2°

C : 1.0 m and 1°

D : 0.75 m and 1°

Q : 26) Match List-I with List-II and select the correct answer using the codes given below the Lists:

List-I (Types of benchmarks)	List-II (Fixed by)
A.GTS benchmark	1.A survey team at the end of day work
B.Permanent benchmark	2. The Survey of India
C.Arbitrary benchmark	3.State PWD
D.Temporary benchmark	4.A survey team in the beginning of a project

Codes:

A : A-3,B-2,C-4,D-1

B : A-3,B-2,C-1,D-4

C : A-2,B-3,C-1,D-4

D : A-2,B-3,C-4,D-1

Q : 28) Spire test is to check which of the following permanent adjustments of theodolite?

A : Plate level axis is perpendicular to vertical axis

B : Horizontal axis is perpendicular to vertical axis

C : The line of sight coincides with the optical axis of the telescope

D : The axis of altitude is parallel to the line of sight

Q : 29) A theodolite is considered to be in proper condition, if

A : the axis of the plate is perpendicular to the vertical axis

B : the trunnion axis is perpendicular to the vertical axis

C : the axis of the altitude level is parallel to the line of collimation

D : All of the above

Q : 30) Pick up the correct feature of accidental error in surveying.

A : Positive and negative errors will occur with equal frequency

B : Small errors occur more frequently

C : Large errors occur

D : All of the above

Q : 31) The reading taken from and instrument station on a bench-mark of 100.00 RL is 1.2 and the reading taken on next station is 1.70. Then RL of next station is

A : 98.8 m

B : 98.30 m

C : 99.50 m

D : 100.50 m

Q : 32) An imaginary line joining the point of intersection of the crosshairs of the diaphragm and the optical centre of the object glass is known as

A : axis of telescope

B : axis of level tube

C : line of collimation

D : horizontal axis

Q : 33) The minor instrument used not only to take horizontal sights but also inclined sights are known as

A : clinometer

B : sextant

C : pantograph

D : planimeter

Q : 34) Which one is not the effect of the presence of iron oxide in water?

A : Causes red colour

B : Increases corrosiveness

C : Increases hardness

D : Causes toxic effect

Q : 35) Colour of water is expressed in number of a

A : Ph value

B : silica scale

C : platinum-cobalt scale

D : None of the above

Q : 36) The maximum permissible total solid content in water for domestic purposes should not exceed

A : 400 p.p.m.

B : 500 p.p.m.

C : 600 p.p.m.

D : 800 p.p.m.

List-I (Type of impurity)	List-II (Process used for removal)
A. Bulky floating and suspended matter	1. Floatation tanks
B. Oil and grease	2. Racks and screens
C. Suspended solids	3. Biological growth (slimes)
D. Colloidal and dissolved organic matter	4. Chemical flocculation

Q : 37) Match List-I with List-II and select the correct answer using the codes given below the Lists:

Codes:

A : A-1, B-2, C-3, D-4

B : A-1, B-2, C-4, D-3

C : A-2, B-3, C-1, D-4

D : A-2, B-1, C-4, D-3

Q : 38) To serve as mains laid on bridges, ideally suited pipes are

A : cast iron pipes

B : wrought iron pipes

C : steel pipes

D : cement concrete pipes

Q : 39) Which one of the following is not a formula to find head loss due to friction in flow through pipes?

A : Darcy-Weisbach formula

B : Hazen-Williams formula

C : Lea formula

D : Manning's formula

Q : 40) Drain valves/scour valves in a water distribution system are provided at

A : high-end points

B : low-end points

C : regular intervals in a pipeline

D : All of the above

Q : 41) The dose of copper sulphate in water treatment varies from

A : 0.3 p.p.m. to 0.6 p.p.m.

B : 1 p.p.m. to 1.5 p.p.m.

C : 2 p.p.m. to 2.5 p.p.m.

D : 3 p.p.m. to 3.0 p.p.m.

Q : 42) A fluoride concentration of _____ in water is beneficial for the prevention of dental caries in children.

A : 0.1 p.p.m. to 0.6 p.p.m.

B : 0.7 p.p.m. to 1.2 p.p.m.

C : 1.4 p.p.m. to 2.0 p.p.m.

D : 2.5 p.p.m. to 3.0 p.p.m.

Q : 43) The most commonly used sewer under culvert is

A : circular sewar

B : semi-shaped sewar

C : egg-shaped sewar

D : horseshoe-type sewar

Q : 44) The disinfection efficiency of chlorine in water treatment

A : is not dependent on pH value

B : is increased by increased pH value

C : remains constant at all pH value

D : is reduced by increased pH value

List-I	List-II
A.Suspended solids concentration	1.BOD
B.Metabolism of biodegradable organics	2.MPN
C.Bacterial concentration Q : 45)	3.Jar
D.Coagulant dose	4.Turbidity

Codes:

A : A-2,B-1C-4,D-3

B : A-4,B-1,C-2,D-3

C : A-2,B-4,C-1,D-3

D : A-4,B-2,C-1,D-3

Q : 46) The potable water is prepared from turbid surfaces water by adopting which of the following treatment sequences?

A : Turbid surface water, coagulation, flocculation, sedimentation, filtration, disinfection, storage and supply

B : Turbid surface water, disinfection, flocculation, sedimentation, filtration, coagulation, storage and supply

C : Turbid surface water, filtration, sedimentation, disinfection, flocculation, coagulation, storage and supply

D : Turbid surface water, sedimentation, flocculation, coagulation, disinfection, filtration, storage and supply

List-I	Q : 47
A.Thickening sludge by chemical oxidation	1.Decrease in volume
B.Stabilization of sludge by heat or chemical treatment	2.Separation of water
C.Conditioning of sludge	3.Digestion of sludge
D.Reduction of sludge by floatation or gravity	4.Separation of water

Codes:

A : A-4,B-3C-1,D-2

B : A-3,B-2,C-4,D-1

C : A-4,B-3,C-2,D-1

D : A-2,B-1,C-3,D-4

Q : 48) The BOD removal efficiency in percentage, during primary treatment, under normal conditions is about

A : 0.65

B : 0.85

C : 0.3

D : zero

Q : 49) Bulking sludge refers to having

A : $f/m < 0.3/d$

B : $0.3/d < f/m < 0.6/d$

C : $f/m = \text{zero}$

D : $f/m > 0.6/d$

Q : 50) SO_2 and CO adversely affect

A : oxygen carrying capacity of blood and functioning of lungs respectively

B : functioning of the respiratory system and brain respectively

C : functioning of the respiratory system and oxygen carrying capacity of blood respectively

D : functioning of air passages and chest respectively

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