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Q : 1) Fill in the blank with the correct option :

_____ is most suitable for quarrying small, thin and regular blocks of stones from rocks, such as granite and gneiss.

A : Wedging

B : Boring

C : Heating

D : Channeling machines

Q : 2) From the given options, identify the tool used by engineers to get constant leveling each time.

A : Tribrach

B : Auto level

C : Theodolite

D : Abney level

Q : 3) To determine the compacting factor of concrete, which among the following formula is used during standard tests?

If weight of partially compacted concrete – A & Weight of fully compacted concrete – B

A : $A * B$

B : A / B

C : $A + B$

Q : 4) Match the following in the context of paints.

A : Bleeding	1. It is the swelling of the paint film generally caused by moisture or volatile substances
B : Bittiness	2. The diffusion of Coloured arterial into the upper coat from the under coat
C : Blistering	3. The appearance of a whitish substance on a surface of varnish or enamel.
D : Blooming	A condition pin which small Particles project above the surfaces of the film of paint or varnish yielding a rough surface.

A : a-4, b-2, c-1, d-3

B : a-2, b-4, c-3, d-1

C : a-1, b-4, c-2, d-3

D : a-2, b-4, c-1, d-3

Q : 5) Fill in the blank with the correct option:

Straight line method, constant percentage method, sinking fund method and quantity survey method are used to determine _____

A : Depreciation

B : Salvage value

C : Municipal taxes

D : Annuity

Q : 6) Which among the following modes of measurement is true for calculating damp proof course (DPC)?

A : It is measured as per drawing stating thickness

B : It is measured as per Drawing stating thickness. The description must include framework, finishing, curing, etc.

C : It also includes the grouting

D : It has the volume of the material as specified

Q : 7) Consider the following errors associated with EDM:

- 1. Precise centering at the master and slave station**
- 2. Error due to variation in meteorological conditions like temperature, pressure, humidity.**
- 3. Errors associated with pointing / sighting of a reflector.**

Which of the aforementioned error can be classified as atmospheric errors?

A : Only 1 and 2

B : Only 2

C : Only 1 and 3

D : Only 3

Q : 8) Consider a 2000 m long cement concrete road that is 4 m wide and 5 cm thick covering the sub-base of 20 cm deep gravel. What would be the value of box cutting in road crust?

A : 1000 m³

B : 500 m³

C : 2000 m³

D : 1500 m³

Q : 9) In a tachometer equipped with an anallatic lens which is used to measure distances using principles of angular surveying without using a chain or measuring tape the additive and multiplying constants respectively are :

A : 0, 100

B : 100, 0

C : 0, 0

D : 100 , 100

Q : 10) Choose the correct option that defines obsolescence

- a. The value at the end of the utility period of the structure being dismantled.**
- b. The value of dismantled materials**
- c. The value which can be obtained at any particular time from the open market if put for sale.**
- d. The decrease in value of property when it goes out of date in style or design.**

A : a

B : b

C : c

D : d

Q : 12) Which among the following is true in case of timber and steel shuttering?

A : Easier to dismantle timber forms compared to steel

B : Steel forms absorb moisture.

C : Steel forms are stronger, durable, and have a longer life than timber formwork and their reuses are more in number

D : Steel does not shrink and expand

Q : 13) Given the size of column as 200 mm* 400 mm and soil bearing capacity of 150 kN/m². Assuming the concrete grade of M20 and Fe 415 and total weight as 330 kN, Calculate the area of footing.

A : 2.42 m²

B : 3.42 m²

C : 4.24 m²

D : 3.06 m²

Q : 14) Which of the following options correctly depicts the deflection angle in traverse?

A : 180° – included angle

B : 360° – included angle

C : Included angle + 180°

D : Included angle + 360°

Q : 15) Consider a 12 inches high slump cone having 8 inches in diameter at the top. How many layers of concrete should you place to fill this cone?

A : 3 equal layers by height

B : 4 equal layers by volume

C : 3 equal layers by volume

D : 8 equal layers by height

Q : 16) Which of the following term is NOT related to tacheometric surveying?

A : Multiplying and additive constants

B : Subtense bar

C : Stadia method

D : Radiation method of surveying

Q : 17) Match the soil class with their respective descriptions according to VOB/C, DIN 18300 (DIN, 2009):

a. Class 7	1. Moderately difficult to excavate
b. Class 4	2. Easy to excavate rock and similar soils
c. Class 1	3. Hard to excavate rock
d. Class 6	4. Topsoil

A : a-3, b-4, c-1, d-2

B : a-3, b-1, c-4, d-2

C : a-2, b-4, c-1, d-3

D : a-2, b-1, c-4, d-3

Q : 18) Match the name of phenomenon with their respective definitions:

a. Coagulation	1. Allowing remaining particles to settle
b. Disinfection	2. Chemicals are added that cause small particles suspended in the water to clump together
c. Flocculation	3. Chlorine, ozone, hydrogen peroxide etc. are used to remove bacteria
d. Sedimentation	4. Mixes the water with large paddles so that clump particles can be brought together into larger clumps

A : a-1, b-2, c-3, d-4

B : a-2, b-3, c-4, d-1

C : a-2, b-3, c-1, d-4

D : a-3, b-2, c-4, d-1

Q : 19) if the spacing of cross-hairs in a stadia diaphragm of a tachometer is 12 mm and the focal length of the object glass is 24 cm, then multiplying constant of the tachometer is

A : 20

B : 100

C : 0.005

D : 200

Q : 20) Identify the instrument shown in the image below

A : Dioptra

B : Theodolite

C : Graphometer

D : Geodimeter



Q : 21) Fill in the blank with the correct option shuttering of beams spanning over 6m should be removed in _____

A : 10 days

B : 21 days

C : 5 days

D : 7 days

Q : 22) Specify the name of the real done to analyze the composition of loam using the reference image

A : Nibble test

B : Ball dropping test

C : Cohesion test

D : Consistency test



Q : 23) Which of the following statements are correct as per the methods of measurements?

- a. Exact girth is considered in measured for painting of chaukhats, edges, chocks etc.**
- b. Uneven surfaces are converted to equivalent plain area by multiplying that flat measured area by a multiplying factor.**
- c. Pipes used in sanitary and water supply works are measured in running metre or feet.**
- d. Manholes of depth ranging from '7-14' are grouped under 'shallow' category.**

A : a & d only

B : b & d only

C : b & c only

D : a & c only

Q : 24) Consider two fluids having specific volumes as s_1 and s_2 . What would be the relation between their mass densities (d_1 and d_2 respectively) if $s_1 < s_2$?

A : $d_1 > d_2$

B : $d_1 = d_2$

C : $d_1 < d_2$

D : Cannot be determined

Q : 25) Which among the following is helpful in reducing acid rain?

A : Gasification

B : Using coal for power generation

C : Using high Sulphur coal

D : Sulfurization of fuel gases

Q : 26) Which of the following foundations is adopted where the loose soil extends to a great depth?

A : Raft foundation

B : Grillage footing

C : Inverted arch footing

D : Pile foundation

Q : 27) Calculate the water required for the concrete mix (in gallon) if the water cement ratio is 0.6 litres/kg and 70 kg cement has been added.

1 US gallon = 3.78 litres

A : 11.66

B : 10.50

C : 9.70

D : 13.33

Q : 28) Which of following operation is not variation of magnetic declination

A : Annual variation

B : Durnal variation

C : Seasonal variation

D : Irregular variation

Q : 29) Match the following types of formwork with their minimum required shrinking period

a. 16-24 hours	1. Soffit formwork to slabs
b. 7 days	2. Props to beams and arches spanning up to 6 m
c. 14 days	3. Vertical formwork to columns, walls and beams
d. 3 days	4. Props for slabs spanning upto 4.5 m

A : a-3, b-2, c-4, d-1

B : a-4, b-3, c-2, d-1

C : a-3, b-4, c-2, d-1

D : a-3, b-4, c-1, d-2

Q : 30) An overhead tank of capacity 50,000 litre is to be built in a society. What will be the preliminary estimate of the project if the per litre cost is Rs. 3?

A : Rs. 15,00,000

B : Rs. 1,00,000

C : Rs. 75000

D : Rs. 1,50,000

Q : 31) The whole circle bearing of lines AB and BC are $20^{\circ} 15'$ and $100^{\circ}30'$. What is the included angle ABC between the lines AB and BC?

A : $90^{\circ}15'$

B : $99^{\circ}45'$

C : $229^{\circ}45'$

D : $100^{\circ}15'$

Q : 32) Arrange the following steps in ascending order of radiation method of plane table surveying

a – select a point “O” so that all points to be located are visible from it.

b – Join the points a, b, c and d on the paper.

c – Mark the direction of the magnetic meridian

d – Centering the alidade on “O” BISECT the objects of traverse A, B, C and D.

e – Set up the table at “O”, level it, select a point “O” on the sheet so that it is exactly over station “O” on the ground.

F – Measure the distances OA, OB, OC and OD and plotted to convenient scale to locate a, b, c and d respectively

A : a, e, c, d, f, b

B : a, e, c, d, f

C : a, e, d, c, f, b

D : a, e, c, f, d, b

Q : 33) Electromagnetic waves are least affected by which of the following parameters?

A : Air temperature

B : Atmospheric pressure

C : Vapour pressure

D : Wind speed

Q : 34) From the given cations, identify the statement that accurately describes the total efficiency of centrifugal pump:

A : The ratio of manometric head to the energy supplied by the impeller per newton of water

B : The ratio of energy supplied to the pump to the energy available at the impeller

C : The ratio of energy us available at the impeller to the energy lost

D : The ratio of actual work done by the pump to the energy supplied to the pump by the prime power

Q : 35) Which of the following units is used in estimating R.C.C. & R.B. work on site?

A : Sq. m

B : Cu. M

C : Sq. ft.

D : ft.

Q : 36) Which of the following valves should you see when you want the flow of water to be in one direction considering, it does not flow in the reverse direction as well?

A : Pressure relief valve

B : Sluice valve

C : Reflux valve

D : Air relief valve

Q : 37) Consider an area having ordinates 1.5m, 2.4m, 4.4 m. What would be the traverse area by Simpson's rule given that $d = 15$?

A : 580 sq m

B : 125 sq m

C : 193.5 sq m

D : 200 sq m

Q : 38) In a closed traverse with five sides, the error from the fore bearing and back bearing of the line is $+ 1^\circ$. The correction to the third line will

A : $0^\circ 24'$

B : $0^\circ 36'$

C : $0^\circ 48'$

D : $0^\circ 12'$

Q : 39) After analyzing a flow meter, you observe that it enough straight pipe lengths before and after water. What is the major reaction behind reason behind these lengths?

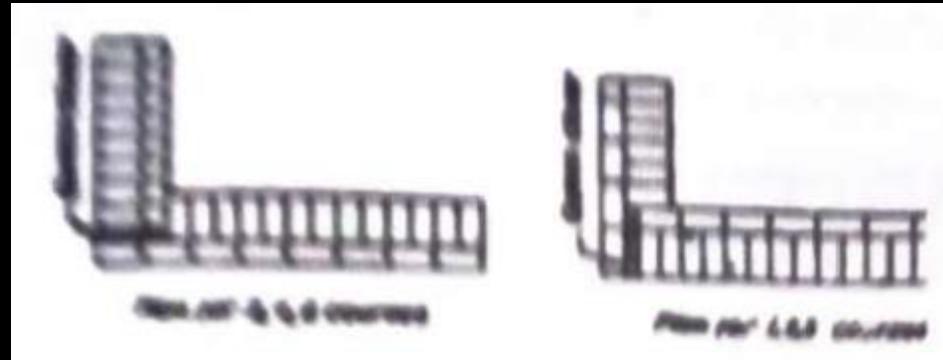
A : Minimize choking under high-flow conditions

B : Dempen pipe vibrations generated near elbows

C : Modify the Coriolis effect for better rangeability

D : Stabilize the flow profile within the flowmeter

Q : 40)



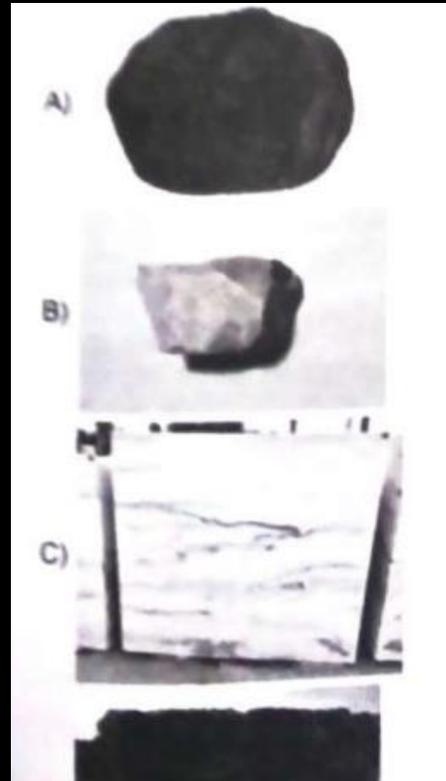
A : English bond

B : one and a half brick Flemish bond

C : one and half brick English bond

D : Flemish bind

Q : 41) Consider the given image. Identify the one that is composed mostly of quartz sand



Q : 42) Which of the following options correctly define the subsidiary station?

A : Station where observation are not made, but the angles at the station are used in triangular series

B : Control points of triangulation network

C : Points to provide additional rays to intersected points

D : Points close to main stations to avoid intervening obstructions

Q : 43) Fill in the blank with the correct options:

 Is the term used to define a brick cut in such a manner that its one long face remains uncut.

A : Quoins

B : Templates

C : Coping

D : Closer

Q : 44) Which of the following is typically determined by a subtense bar?

A : Long distance of up to a km

B : Short distance of up to 200 mm

C : Very short distance up to a few cm

D : Very long distances of up to 100 km

Q : 45) Fill in the blank with the correct option:

The process to remove rust, mill scale (Oxidization) and old paints with the use of high velocity impact of abrasives (sand & grit) is known as _____

A : Surface washing

B : Blast cleaning

C : Manual hand cleaning

D : Flame cleaning

Q : 46) Fill in the blank with the correct option:

Fine aggregate can pass through I.S. Sieve of _____

A : 13 mm

B : 10 mm

C : 4.75 mm

D : 15 mm

Q : 47) What would be the total pressure on a submerged block making an angle O with the fluid surface?

(Where A is area submerged and x is gauge pressure on an elemental area (γh^*) and h^* are the distance of the centroid of the area from the free surface of the liquid)

A : xA

B : $xA \sin O$

C : $x \sin O/A$

D : $Ax/\sin O$

Q : 48) Fill in the blank with the correct option:

The process to remove rust, mill scale (Oxidization) and old paints with the use of high velocity impact of abrasives (sand & grit) is known as _____

A : Surface washing

B : Blast cleaning

C : Manual hand cleaning

D : Flame cleaning

Q : 49) Fill in the blank with the correct option:

Fine aggregate can pass through I.S. sieve of _____

A : 13 mm

B : 10 mm

C : 4.75 mm

D : 15 mm

Q : 50) Identify the option which holds true in the case of the depth of the neutral axis of a Doubly reinforced beam.

A : If it is less than the depth of critical neutral axis the concrete attains its maximum stress earlier

B : If it is greater than the depth of critical neutral axis. The concrete attains its maximum stress earlier

C : If it is greater than the depth of critical neutral axis, the steel in the tensile zone attains its maximum stress earlier

D : If it is less than the depth of critical neutral axis the concrete and steel attain their maximum stresses simultaneously

Q : 51) Identify the option that correctly completes the below statement:

Horizontal distances obtained by tacheometric observations _____

A : Require slope correction

B : Require pull correction

C : DO not require slope and pull correction

D : Require pull and slope correction

**Q : 52) Consider the given building types
Identify the one(s) that can be estimated
using the centerline method**

(i) Hexagonal

(ii) Circular

(iii) Octagonal

A : (i) and (ii)

B : (i) and (iii)

C : (ii) and (iii)

D : (i), (ii) and (iii)

Q : 53) Fill in the blanks with an appropriate options:

The water cement ratio directly affects the strength of the concrete mix. The typical w/c ratio for different grades of concrete varies between _____ to _____.

A : 0.4 – 0.6

B : 0.9 – 1.2

C : 1.2 – 1.5

D : 1.5 – 2.0

Q : 54) In which of the following methods of grading of aggregates are the samples of fine and coarse aggregates passed through nine standard sieves?

A : By trail

B : By minimum voids method

C : By finesse modules method

D : By arbitrary standards

Q : 55) Two points P and Q located on a map have the following coordinates:

Determine the length of PQ:

Latitude	+30 m	+ 10 m
Departure	+40 m	- 10 m

A : 60 m

B : 50 m

C : 34.89 m

D : 52.60 m

Q : 56) Which of the following machines can be used for the top-soil removal?

A : Jackhammer drill

B : Scraper

C : Shuttle car

D : Shredder

Q : 57) Consider a clay deposit having a thickness of 15 cm and a void ratio of 1. After going under the settlement, its final void ratio becomes 0.4. Which of the following option gives the correct value for its final thickness?

A : 2.4 cm

B : 0.24 cm

C : 4.5 cm

D : 0.45 cm

Q : 58) You are provided with a sample of soil. You have to determine the water content of the given sample. Which of the following method cannot be helpful in the given scenario?

A : Calcium carbide method

B : Pycnometer method

C : Pipette method

D : Oven dry method

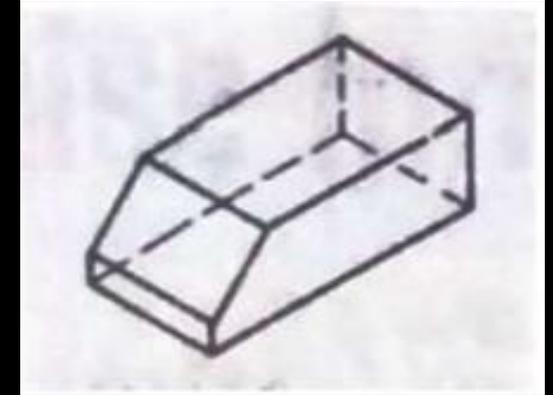
Q : 59) Specify the name of the brick used for the image shown:

A : Splay header

B : Splay stretcher

C : Dog leg

D : Beveled bat



Q : 60) Arrange the following steps in ascending order of removal of shuttering.

- a. Shuttering forming soffit of slab**
- b. Shuttering forming soffit of beam girders**
- c. Shuttering forming the vertical faces of walls**
- d. Heavily loaded shuttering**

A : a, b, c, d

B : d, c, b, a

C : c, d, b, a

D : c, a, b, d

Q : 61) Which of the following is the most convenient and portable tool for the direct computation of directions (i.e. horizontal angles)?

A : Prismatic compass

B : Sextant

C : Surveyor's compass

D : Dumpy level

Q : 62) Where should you implement the steel reinforcement in a singly reinforced beam?

A : Neutral zone

B : Compressive zone

C : Tensile zone

D : Both tensile and compressive zones

Q : 63) A single room of size 5m × 6 m enclosed by 20 cm thick wall has to be constructed. The required foundation trench is 60 cm wide and 80 cm deep find the quantity of earthwork in excavation

A : 120.5 cu. m.

B : 10.94 cu . m.

C : 109.4 cu. m.

D : 12.05 cu. m.

Q : 64) Identity the technique generally preferred for contouring rough country where ordinary levelling is tedious and chaining is slow and inaccurate.

A : Compass surveying

B : Tachometry surveying

C : Plane table surveying

D : Levelling

Q : 65) Fill in the blank with the correct option:

Instrument error that is independent of distance measured in EDM is called

A : Scale error

B : Zero error

C : Cyclic error

D : Non-scale error

Q : 66) Specify the correct formula for 'Year's purchase' from the below mentioned options.

A : $100 /$ rate of interest

B : $100 /$ net annual income

C : $100 /$ gross income

D : $100 /$ market value

Q : 67) Fill in the blank with the correct option

Reinforcement in RCC

A : Caving

B : Tempering

C : Superheating

D : Diagonal tension

Q : 68) You wish to check the quality of timber with the help of sound which of the following way should you use for such a scenario?

A : Timber struck by hammer

B : Two timber pieces struck together

C : Timber tapped by steel square

D : Timber knocked by chisel

Q : 69) Match the following, in context if the leveling staff.

a. Self-reading staff	1. The smallest division is 5mm. Its length is about 3 metres
b. Solid staff	2. It has a moving target against which readings are taken by the staff man. The sliding target comes along with the vernier.
c. Telescopic staff	3. The readings are always taken from the telescope hence appear inverted. Therefore, readings are taken from downwards.
d. Target staff	4. It has three telescopic lengths of 1.5, 1.5, 2 metres when stretched out fully. Normally, its total length is 5 metres

A : a-1, b-3, c-4, d-2

B : a-3, b-1, c-4, d-2

C : a-3, b-1, c-4, d-4

D : a-3, b-4, c-1, d-2

Q : 70) Out of the following options, what will represent the horizontal angle between magnetic meridian and true meridian?

A : Deflection angle

B : Included angle

C : Declination

D : Excluded angle

Q : 71) Identify the instrument that is proficient in giving the rate of flow as well as the total flow.

A : Orifice meter

B : Lobed impeller flow meter

C : Piezo flow meter

D : Anemometer

Q : 72) Arrange the procedure steps in ascending order for a standard test of compression strength of a brick

a – Test the sample by keeping the mortar filling face upwards and flat face horizontal in compression testing machine and note down the crushing load.

b – The bricks are stored under damp jute bags for 24 hours followed by immersion in clean water for 3 days

c – The frogs and all the voids in the bed face are filled with cement mortar 1 : 1 (1 cement, 1 clean coarse sand of grade 3mm and down)

d – The remove the specimens and drain out any surplus moisture at room temperature.

e – The bricks specimens are immersed in water at room temperature (25°C to 29°C) for 24 hours.

A : a, b, c, d, e

B : e, d, b, c, a

C : e, d, c, b, a

D : e, c, d, b, a

Q :73) In the process of metallizing, which metal is used in present practice of painting of bridges in Indian railways?

A : Zinc

B : Bronze

C : Copper

D : Iron

Q :74) Fill in the blank with the correct answer

Velocity correction is applied to account for _____

A : Atmospheric errors

B : Instrument operation errors

C : Standardization errors arising in the instrument

D : Satellite error

Q : 75) You have to transform kinetic energy to hydrodynamic energy, Which of the following should you use to perform the above operation?

A : Displacement pump

B : Mono pump

C : Reciprocating pump

D : Centrifugal pump

Q : 76) Let the force is given by F and displacement is given by D . If the values of force and length are modified such that

$$F = 2F \text{ and } D = 3D$$

What would be the final value of energy in such a scenario?

A : $2F/3D$

B : $3D/2F$

C : $6FD$

D : $1/6FD$

Q : 77) A soil layer of depth H is divided into sub layer of thickness 't' to ease out the calculation of settlement of soil layer. You wish to calculate the final settlement by performing some operations on each thin layer, Which of the following option will help you to find the total settlement of the layer?

A : The difference of individual settlements of the various thin layers

B : The square of individual settlements of the various thin layers.

C : The product to individual settlements of the various thin layers

D : The sum of individual settlements of the various thin layers

Q : 78) Fill in the blank with the correct option:

Prismatic compass is mainly used _____

A : To measure horizontal angle to measure vertical angle to measure slope distance.

B : To set out right angle from a survey line.

C : To find the bearing of traversing to find included angles.

D : To mark the position of stations to sight the stations to range straight lines.

Q : 79) Fill in the blank(s) with the correct answer:

_____ EDMs can be used up to a range of 100 km while _____ type is used with a range up to 3 km.

A : Infrared, microwave

B : Infrared, visible range

C : Visible range, ultraviolet

D : Microwave, infrared

Q : 80) Consider that the coefficient of passive pressure is given by K_p . What would be the coefficient of active pressure if $K_p = 4$?

A : 8

B : $\frac{1}{4}$

C : 4

D : $\frac{1}{2}$

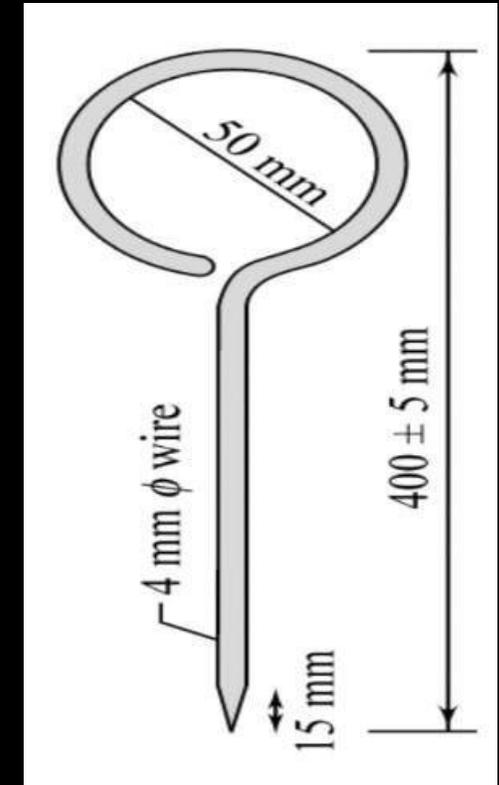
Q : 81) Identify the surveying instrument shown in the image

A : Pags

B : Offset rods

C : Ranging rod

D : Arrows



Q : 82) Identify the soil that gets accumulated at its place of origin only

A : Glacial soil

B : Residual soil

C : Transported soil

D : Aeolian soil

Q : 83) Fill in the blank with the correct option:

_____ is a preliminary inspection of the area to survey in theodolite traversing.

A : Selection and making of stations

B : Measurement of traverse legs

C : Computation

D : Reconnaissance

Q : 84) Consider the given pairs

Identify the one that is enacted correctly

A : Check valve – To maintain the flow if water in pipes, in all directions.

B : Surge arrestor – Control of water hammer in pipe lines

C : Air valve – To drain or empty the pipe line section

D : Scour valve – To release the accumulated air in pipelines.

Q : 85) Match the column.

a. Detailed estimate	1. Estimate of additional works during the process
b. Supplementary estimate	2. Prepared for approx. rates initially
c. Revised estimate	3. Includes details and cost of everything
d. Rough estimate	4. Prepared when the costs exceed more than 5%

A : a-2, b-1, c-4, d-3

B : a-3, b-4, c-1, d-2

C : a-3, b-1, c-4, d-2

D : a-1, b-3, c-4, d-2

Q : 86) Which lime is used for under water construction?

A : Hydraulic lime

B : hydrated lime

C : Quick lime

D : Pure lime



Result : **SSC JE 2019**

Selected Candidates For DV From **EverExam**

100+ SELECTION



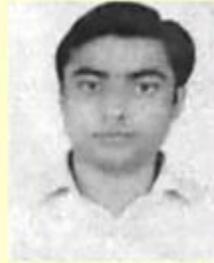
Abhishek Gaur



Swaraj Chauhan



Pankaj Gupta



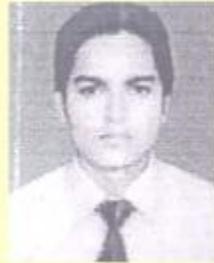
Vaibhav Sharma



Randhir Das



Udayveer



Yuresh Singh



Saurabh



Ranvir Kumar



Mohd Zaid Raza Khan



Tarique Akhter



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