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Daily Class – 8:30 PM

Q :) Which of these is a personal error?

A : Blunt pivot

B : Sluggish needle

C : Pivot being bend

D : Inaccurate centering

Q :) What is a pantagraph used for?

A : For measuring distances

B : For setting out right angles

C : For enlarging or reducing plans

D : For measuring areas

Q :) Which of the following is the least count of leveling staff?

A : 0.5 mm

B : 0.15 cm

C : 5 cm

D : 5 mm

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Q :) For a scale of 1 cm = 2.5 km, the representative fraction is:

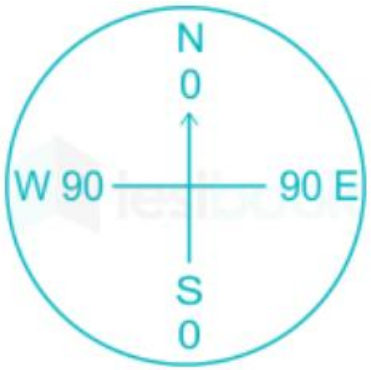
A : 1 : 250000

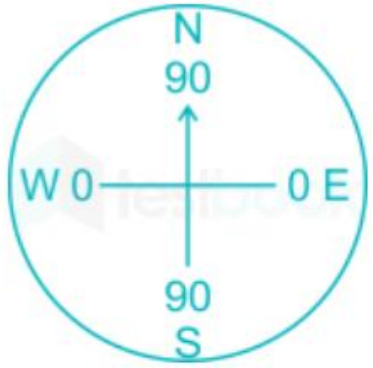
B : 1 : 2500000

C : 1 : 25000

D : 1 : 2500

Q :) Which of the figures represents the correct graduation in a surveyor's compass?





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Q :) While using a theodolite, how to change the reading on the horizontal circle while measuring an horizontal angle?

A : Upper clamp is loosened and lower clamp is tightened.

B : Both, upper and lower clamp are loosened.

C : Both, upper and lower clamp are tightened.

D : Upper clamp is tightened and lower clamp is loosened.

Q :) Which type of survey facilities field observations and the plotting on a sheet simultaneously?

A : Compass

B : Chain

C : Theodolite

D : Plane table

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Daily Class – 8:30 PM

Q :) Which of these is not an error to natural causes in case of stadia surveying?

A : Parallax

B : Bad visibility

C : Unequal refraction

D : Unequal expansion

Q :) If the reduced level of a benchmark is 101.00 m. The back sight reading is 1.215 m and the fore sight is 1.810 m, the reduced level of the forward station is-

A : 100.405 m

B : 104.025 m

C : 104.305 m

D : 99.605 m

Q :) Select the correct statement, from the options, with respect to contouring.

A : The contour interval depends on the nature of ground

B : The contour interval on a map is not constant

C : The ground slope can be determined using contours

D : A closed contour line with one or more higher ones inside represents a valley

Q :) Closed contours of decreasing values towards their centre, represent a

A : Hill

B : Depression

C : Saddle

D : River bed

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Daily Class – 8:30 PM

Q :) If a curve is made of two or more simple circular arcs in one direction and are meeting at a common tangent, such curve is known as:

A : Transition curve

B : Reverse curve

C : Simple circular curve

D : Compound curve

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Daily Class – 8:30 PM

Q :) What is the correction for refraction as applied to staff reading (where R is radius of earth)?

A : $d^2/2R$

B : $1/7 \times (d^2/2R)$

C : $6/7 \times (d^2/2R)$

D : $1/7 \times (d^2/R)$

Q :) If the whole circle bearing is $327^o24'$, then the reduced bearing is_____.

A : $N32^o36'W$

B : $N36^o32'W$

C : $S36^o32'E$

D : $S32^o36'E$

Q :) Hydrographic surveys deal with the mapping of:

A : Climatic systems

B : Mountainous regions

C : Heavenly bodies

D : Large water bodies

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Daily Class – 8:30 PM

Q :) When divisions of a vernier are increasing in the opposite direction of the main scale, such vernier is called a _____

A : Simple vernier

B : Direct vernier

C : Retrograde vernier

D : Double vernier

Q :) Which one of these is used for the measurement of base line?

A : Metric chain

B : Invar tape

C : Steel tape

D : Engineer's chain

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Daily Class – 8:30 PM

Q :) Which of the following is a reason for negative error in chaining?

A : Sag in chain

B : Chain not being straight

C : Rise in temperature

D : Chain getting out of line due to wrong ranging

Q :) If at the place, the magnetic bearing of the sun of noon is $182^o30'$, the magnetic declination at the point will be:

A : $2^o15'$

B : $-2^o30'$

C : $2^o30'$

D : $3^o30'$

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Daily Class – 8:30 PM

Q :) The two point problem and three point problem are methods of:

A : Orientation

B : Resection

C : Resection and orientation

D : Traversing

Q :) Theodolite is used to measure

A : Horizontal angle and vertical angle

B : Horizontal and vertical distance

C : RL at a point

D : None of the above

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Daily Class – 8:30 PM

Q :) The principle of plane table survey is:

A : Traversing

B : Ranging

C : Triangulation

D : Parallelism

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Daily Class – 8:30 PM

Q :) The anallactic in tachometer is a :

A : Convex and concave lens

B : Convex lens

C : Plane lens

D : Concave lens

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Daily Class – 8:30 PM

Q :) When the angular and linear measurements are equally precise in traversing, the balancing of a traverse is done by

A : Transit rule

B : Empirical rule

C : Bowditch's rule

D : Any one of the above

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Q :) The horizontal distance between two points on two consecutive contours is known as :

A : Horizontal equivalent and contour interval both

B : Horizontal equivalent

C : Contour elevation

D : Contour interval

Q :) If 'R' is the radius of the circle, so for a 20 m arc, the degree of a circular curve is :_____

A : 1718.9/R

B : 2019/R

C : 1145/R

D : 1765/R

Q :) Contour lines cross a ridge or valley line at

A : 45^o

B : 90^o

C : 0^o

D : 180^o

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Daily Class – 8:30 PM

Q :) Which among the following is a correct principle of surveying?

A : Working from part to whole

B : Working from whole to part

C : To locate old stations for reference points

D : Working from part to part

Q :) Calculate the reduced bearing of a line if its whole circle bearing Is 130 degree.

A : 50^o

B : $N\ 130^o\ E$

C : $S\ 50^o E$

D : $S\ 50^o W$

Q :) Surveys which depict the natural features of a country are known as

A : Topographical surveys

B : Engineering survey

C : National surveys

D : Cadastral surveys

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Q :) Which of the following equations is correct?

A : Back bearing = Fore bearing $\pm 90^o$

B : Back bearing = Fore bearing $\pm 180^o$

C : Back bearing = Fore bearing $\pm 270^o$

D : None of the above

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Daily Class – 8:30 PM

Q :) Accurate centering of a plane table is done by

A : Spirit level

B : Plumbing fork

C : Alidade

D : Ranging rod

Q :) When the whole circle bearing of a traverse line is between $90^o\ to \pm 180^o$, then

A : The latitude is positive and departure is negative

B : The departure is positive and latitude is negative

C : Both latitude and departure are positive

D : Both latitude and departure are negative

Q :) Which of the following chains was originally used for land measurement with a length of 66 ft?

A : Metric chain

B : Engineer's chain

C : Gunter's chain

D : Revenue chain

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Daily Class – 8:30 PM

Q :) A _____ is one on which it is possible to measure two dimensions only, such as units and lengths, metres and decimeters, miles and furious etc.

A : Scale of chords

B : Diagonal scale

C : Plain scale

D :Vernier scale

Q :) The magnetic bearing of a survey line is found to be $33^o40'$. If the declination is $3^o\ 40'E$, the true bearing is

A : $30^o00'$

B : $41^o00'$

C : $30^o40'$

D : $37^o20'$

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Daily Class – 8:30 PM

Q :) If telescope of a theodolite can rotate about its horizontal axis in the vertical plane completely then the theodolite is termed as:

A : Optical theodolite

B : Azimuth theodolite

C : Transit theodolite

D : Non-transit theodolite

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Daily Class – 8:30 PM

Q :) Difference in length of an arc and its subtended chord on earth's surface for a distance of 18.2 km is _____

A : 10 mm

B : 15 mm

C : 22 mm

D : 100 mm

Q :) The maximum permissible tolerance in a 20 m chain is:

A : ± 5 mm

B : ± 15 mm

C : ± 10 mm

D : ± 20 mm

Q :) The length of a line measured with a 20 m chain was found to be 250 m. Calculate the true length of the line if the chain was 10 cm too long.

A : 382.93 m

B : 12.42 m

C : 251.25 m

D : 98.6 m

Q :) A bench mark has been established at the soffit of an ornamental arch at the known elevation of 100.0 m above sea level. The back sight used to establish height of instrument is an inverted staff reading of 2.105 m. A forward sight reading with normally held staff of 1.105 m is taken on a recently constructed plinth. The elevation of the plinth is

A : 103.210 m

B : 101.000 m

C : 99.000 m

D : 96.790 m

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Daily Class – 8:30 PM

Q :) Surveyor compass works on the principle of :

A : Magnetic bearing system

B : None of the above

C : Whole circle bearing system

D : Quadrantal bearing system

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Q :) Which of the following is carried out by two theodolite method?

A : Astronomical survey

B : Geodetic survey

C : Tacheometric survey

D : Circular curve ranging

Q :) In the plane table survey the method used for locating the points is:

A : Resection

B : Radiation

C : Intersection

D : Either radiation or intersection

Q :) In a closed traverse if the numbers of lines are ‘n’ then the sum of all the internal angles will be (in Right angles)

A : 2n – 4

B : 4n - 2

C : n + 2

D : 2n + 4

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Q :) Which of the following levelling is necessary for carrying levelling across any obstacle requiring a long sight between two points so situated where no place is there for the setup of the level midway between two points?

A : Differential levelling

B : Reciprocal levelling

C : Precise levelling

D : Fly levelling

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Daily Class – 8:30 PM

Q :) _____ objects can be plotted accurately using plane table.

A : Balanced

B : Irregular

C : Normal

D : Balanced and normal both

Q :) As per Indian standard how many numbers of links will be there in a 30 m chain?

A : 66

B : 33

C : 150

D : 100

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Daily Class – 8:30 PM

Q :) Offsets may be

A : Perpendicular offsets

B : Oblique offsets

C : Parallel offsets

D : Both (1) and (2)

Q :) The plane of a map was photo copied to a reduced size such that a line originally 100 mm, measures 90 mm. The original scale of the plane was 1 : 1000. The revised scale is

A : 1 : 900

B : 1 : 1111

C : 1 : 1121

D : 1 : 1221

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Q :) The number of horizontal cross wires in a stadia diaphragm is _____

A : One

B : Two

C : Four

D : Three

Q :) The magnitude of dip at the equator is :

A : 0^o

B : 22.50^o

C : 90^o

D : 180^o

Q :) Calculate the length of the tangent (in m) of a simple circular curve of 430 m radius and 60^o deflection angle.

A : 300.60 m

B : 200.26 m

C : 48.60 m

D : 248.26 m

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Q :) What is the use of trough compass in plane table surveying?

A : To orient the plane along magnetic meridian

B : For centering

C : To check the level of table

D : Not used in plane table surveying

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Q :) Calculate the horizontal distance between the staff and the instrument, if the staff readings are 1.6 and 3.2 m which correspond to lower and the upper horizontal lines of cross hair. The lens of the telescope of the tachometer is of anallactic lens.

A : 200 m

B : 100 m

C : 140 m

D : 160 m

Q :) In optical characteristic of a telescope which compound lens free from chromatic aberration is termed as

A : Illumination

B : Aplanation

C : Magnification

D : Achromatism

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Q :) In determining the area of the curved boundary _____ rule is used to get accurate results.

A : Simpson's

B : Mid-ordinate

C : Average ordinate

D : Trapezoidal

Q :) A well conditional triangle gas angle not less than and more than respectively

A : 10^o and 90^o

B : 20^o and 120^o

C : 30^o and 120^o

D : None of these

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Q :) The magnitude of 'sag correction' during measurement of lengths by taping is proportional to the

A : Cube of the weight of the tape, in kg per m run

B : Cube root of the weight of the tape, in km per m run

C : Square of the weight of the tape in kg per m run

D : Square root of the weight of the tape, in kg per m run

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Q :) If the weight of an angle A($40^o24'24"$) say is 2, then the weight of the angle A/3 ($13^o25'08"$) will be

A :4

B : $\pm\sqrt{3}$

C : 9

D : 18

Q :) The plan of an area drawn with the original scale of 1cm = 10m, has shrunk such that a line, originally 15 cm long on the plan, now measured 14.5 cm. The shrunk scale is given by 1cm is equal to

A : 0.97 m

B : 9.70 m

C : 10.34 m

D : 10.97 m

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

List-I	List-II
A. Isogonic lines	1. Lines joining places of equal magnetic declination
B. Agonic lines	2. Lines joining [places of zero dip
C. Isoclinic lines	3. Lines joining places of equal dip
4. A clinic lines	4. Lines joining places of zero magnetic declination

Codes:

A : 1, 2, 3, 4

B : 1, 4, 3, 2

C : 3, 2, 1, 4

D : 3, 4, 1, 2

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Q :) Consider the following statements:

Reciprocal levelling eliminates the effect of

1. Error due to earth's curvature
2. Error due to atmospheric refraction
3. Mistake in taking leveling staff readings.
4. Error due to line of collimation.

Which of these statements are correct?

A : 1, 2 and 3

B : 1, 3 and 4

C : 2, 3 and 4

D : 1, 2 and 4

Q :) An image of a hilltop is 87.5 mm from the centre of a photograph. The elevation of the hill is 665 m and the flight altitude is 4660 m from the same datum. The image displacement due to elevation of the hill will be

[Take f = 210 mm]

A : 61.3 mm

B : 8.5 mm

C : 87.5 mm

D : 12.5 mm

Q :) Which of the following characteristic features may be used while plotting a contour plan?

1. **Two contour lines having the same elevation cannot unit and continue as one line.**
2. **Contour lines close together indicate a gentle slope**
3. **Contour lines cross a valley line at right angles.**

Select the correct answer using the codes given below

A : 1, 2 and 3 **B : 1 and 2**

C : 2 and 3 **D : 1 and 3**

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

List-I	List-II
A. Fathometer	1. Microwave instrument
B. Passometer	2. Sounding instrument
C. Tellurometer	3. Distance measuring instrument
D. Altimeter	4. Height measuring instrument
	5. Pressure measuring instrument

Codes:

A : 2, 3, 1, 4

B : 3, 5, 1, 4

C : 2, 5, 4, 1

D : 3, 2, 5, 1

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Q :) Match list-I (Characteristics of contour map) with List-II (Type of structure on ground) and select the correct answer using the codes given below the lists:

List-I	List-II
A. Higher value inside the loop	1. Ridge lne
B. Widely spaced contour lines	2. Vertical cliff
C. Overlapping contour lines	3. Flatter slope
D. Intersecting contour lines	4. Overhanging cliff

Codes:

A : 1. 4, 2, 3

B : 2, 4, 1, 3

C : 1, 3, 2, 4

D : 2, 3, 1, 4

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

List-I	List-II
A. Most probable error	1. $\pm\frac{\sigma}{n}$
B. Standard deviation	2. $\pm$ 0.6745 σ
C. Standard error of the mean	3. $\pm 0.6745\ \frac{\sigma}{\sqrt{n}}$
D. Most probable error of the mean	4. $\sqrt{\frac{\Sigma(Residual)^2}{n}}$

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