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Q:) For topography survey of building sites, the scale used to
(Hariyana SSC 13.04.2018)

A : 1 cm = 10 m or less

B : 10 cm = 1 m or less

C : 1 cm = 100 m or less

D : 1 m = 100 m or less

$\boxed{1\,cm = 10\,m}$

$\frac{1}{250000}$

A. forest :- 1cm = 2.5km

Q:) The art of determining the relative positions distinctive features, on the surface of the earth or beneath surface of earth, by means of measurement of distances, directions and elevations is called as: (DDA JE 23.04.2018 First shift)

A : Levelling

B : Surveying

C : Geodetic

D : Astronomy

Q:) The scale in which three successive dimensions can be measured at a time is called?
(SSC JE 24.01.2018 morning shift)

A : Chord scale

B : Diagonal scale

C : Plain scale

D : Vernier scale

Q:) Which of the following scale of the map is not affected due to shrinking of map?
(SSC JE 23.01.2018 Evening shift)

A : Engineer's scale

B : Graphical scale

C : Representative

D : None of these

B

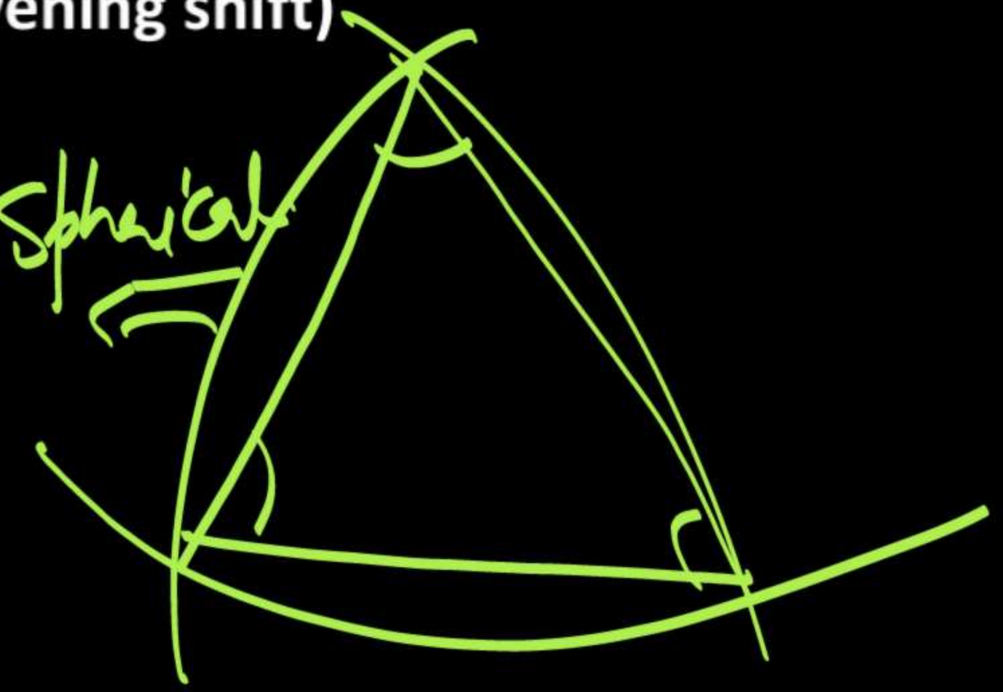
Q:) In geodetic surveying, sum of all time the internal angles (degree) of a spherical triangle should be.....
(SSC JE 29-01-2018 Evening shift)

A : Equal to 180

B : Equal to 360

C : Greater than 180

D : Less than 180



Q:) Which one of the following surveys is employed for collecting sufficient data in connection with sewage disposal and water supply words?
(UPRUNL JE 2015)

A : Topographic survey

B : Cadastral survey

C : Cross-sectioning and profile levelling

D : None of these

C

A detailed Survey.

Match List I with List II and select the correct answer using the given lists.

List I Type of survey	List II Recommended scale
A. Building survey	a. 1 : 1000
B. Building survey	b. 1 : 5000
C. Topographic survey	c. 1 : 10000
D. Route survey	d. 1 : 25000

(UPRVUNL AE 2015)

A : (a) : A - a, B - b, C - c, D - d

B : (b) : A - b, B - a, C - c, D - d

C : (c) : A - a, B - b, C - d, D - c

D : (d) : A - b, B - a, C - d, D - c

1 cm = 10 m

Sa = 1 / 10 × 100

Q:) Gunter's chain is ..... m long
(SSC JE 23-09-2019 evening)

A : 23.12

B : 21.12

C : 22.12

D : 20.12

∴ 66 ft → 20.12 m.

Engineering = 100 ft = ____ m

(D) Revenue - drain + Cadastral Survey

33 ft = 10.05 m

Q:) An area of a field is 250 square centimetres from a shrunk map having shrunk factor of 0.9. Calculate the original area (square metres) on the field, if the original scale of the map is 1 cm = 50 m.

(SSSC JE 27.01.2018 Morning shift

A : 309

B : 625000

C : 64644

D : 771450

1cm = 50

$= \frac{250}{(0.9)^2} \times 50 \times 50$

D

$\frac{y}{x} = \frac{1}{1000}$

x cm map

$1000 \times x$ cm

y cm map

Shrunk factor

$1000 \times x$ cm

Original area $= \frac{250}{(0.9)^2}$

Q:) A substance bar can be used to determine:
(UPRVUNL JE 09-11-2016)

A : Horizontal angles

B : Horizontal distances

C : Verical angles

D : Horizontal and vertical distances

Q:) Defective ranging error is
(DMRC JE 2017 3rd shift)

A : Cumulative possitive

B : Comprensating

C : Both cumulative possitive and cumulative negative

D : Cumulative negative

Q:) The distance between two brass rings in a surveyor's chain is
(S.S.C. JE 2015)
A : 75 cm
B : 40 cm
C : 1 m
D : 20 cm

Q:) The least count of a prismatic compass is:
(SSC JE 23-09-2019 evening)

A : 60 second

B : 30 second

C : 45 second

D : 15 second

30 min → prismatic compass

Staff = 5mm

Surveyor compass = 15min

Theodolite = 20"

Q:) Which of the following is not a temporary adjustment to a compass used for land surveying? (DDA JE 23-04-2018 First shift)

A : Center of the pivot coincides with geometric cener of graduated ring

B : Focusing the prism

C : Making the pivot exactly vertica;;y over the ground station mark

D : Levelling

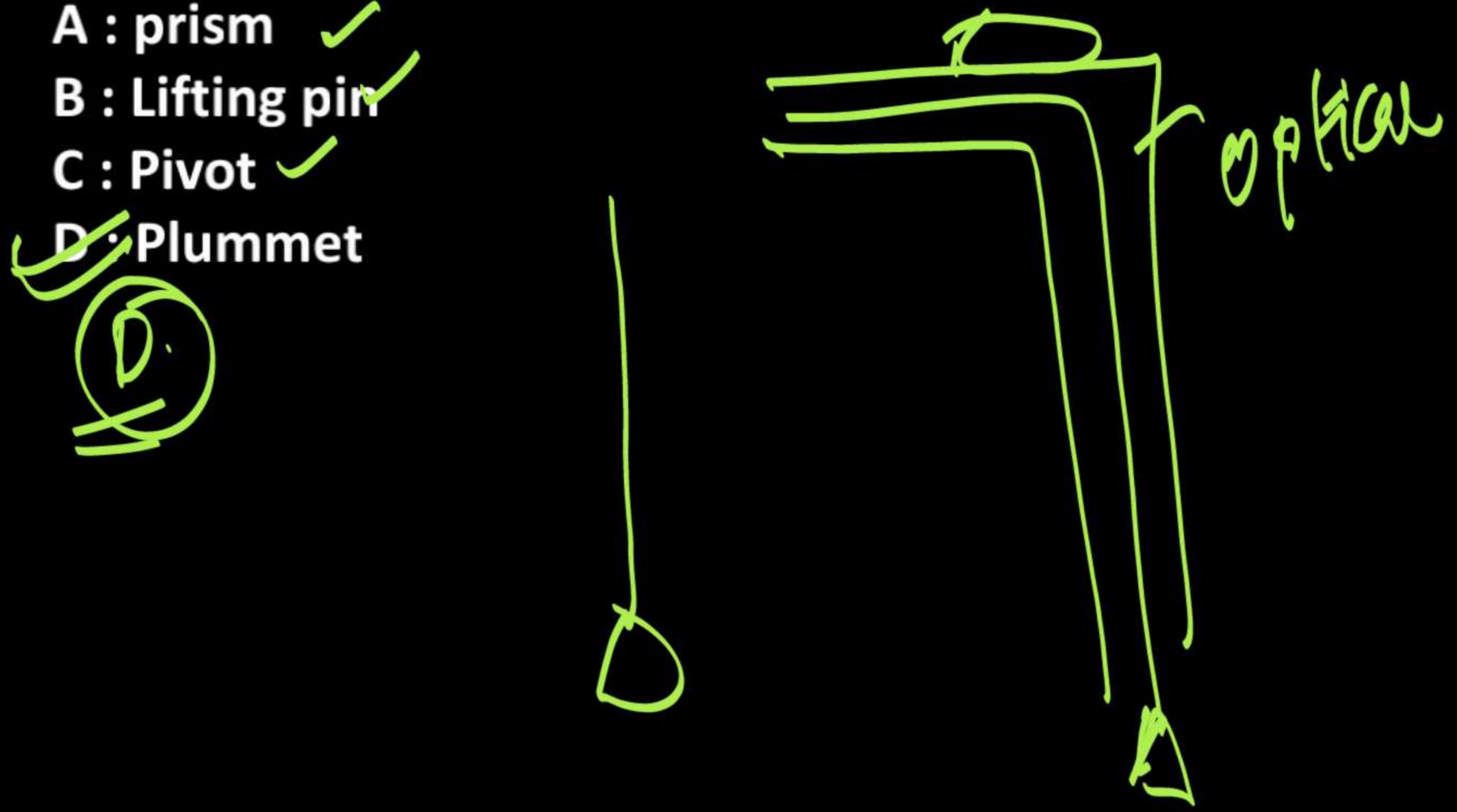
Q:) Identify which is NOT a part of a prismatic compass.
(LMRC JE 13.05.2018 shift-I)

A : prism

B : Lifting pin

C : Pivot

D : Plummet



Q:) Calculate true bearing of a line, if magnetic bearing of the line is S 60^0 E and magnetic declination is 5^0 eastward.

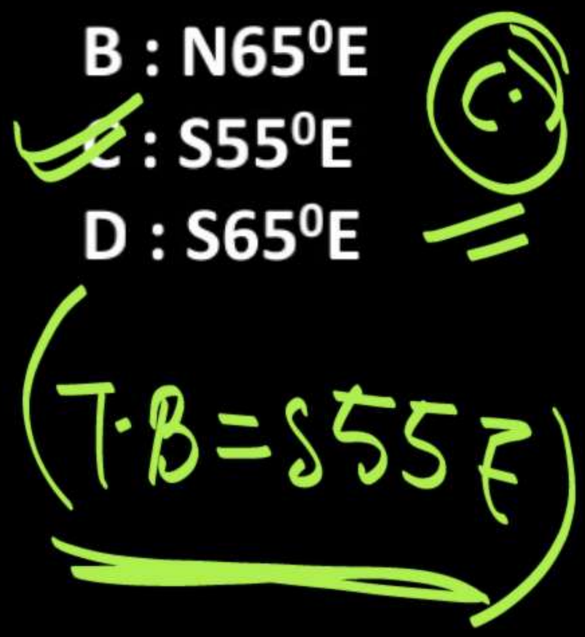
(SSC JE 25.01.2018 Morning shift)

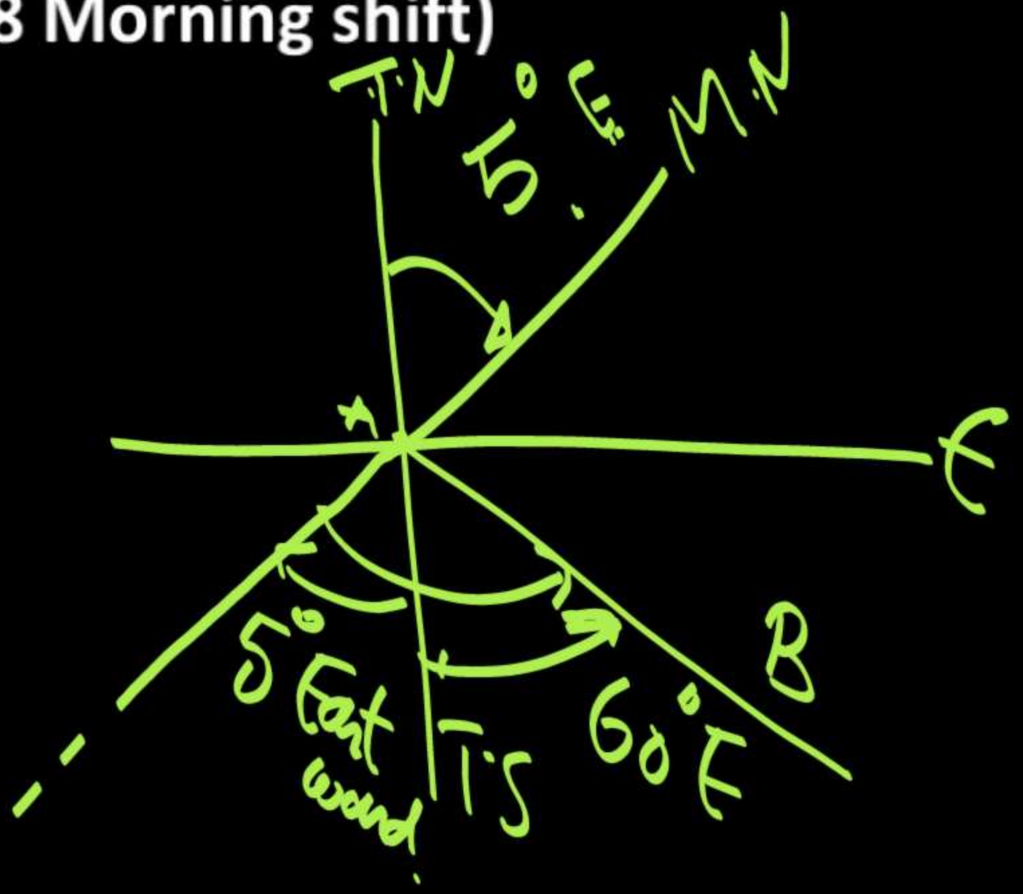
A : N55^0E

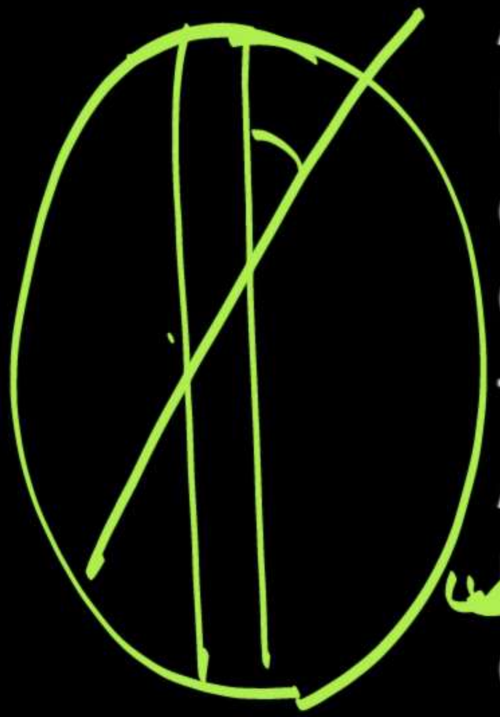
B : N65^0E

C : S55^0E

D : S65^0E







Q:) Which of the following statements is/are incorrect about the prismatic Compass?

A. The nedle is broad but it does not act as an index.

B. The graduated ring is attached with the needle.This does not rotate along with the line of sight.

C. The readings are taken directly seeing through the top of the glass.(DFCCIL, 17-04-2016)

A : B and C

B : Only C

C : Only A

D : A and C

B

Q:) In surveyor's compass, the graduated ring is attached to the
(UPPCL JE 2016)

A : Box

B : Needle

C : Sight vane

D : Jewel bearing

Q:) If whole circle bearing oof any line is W_1, that of the preeceding line is W_2 and 'd' is the deflection angles to the right, then choose the correct expression:
(SSSC 2005)

A : $W_1 - W_2 + d$

B : $W_1 = W_2 - d$

C : $W_1 = W_2 + 2d$

D : None of these

(Home work)

Q:) Which pf the following statements is not correct? (UPPCL JE 2015)

A : A through compass in an accessory to a plane table

B : A surveyor's compass has two sight vanes

C : In a prismatic compass, then graduations on the aluminium disc and the index remains stationary

D : A prismatic compass has an object vane and an eye vane

C.

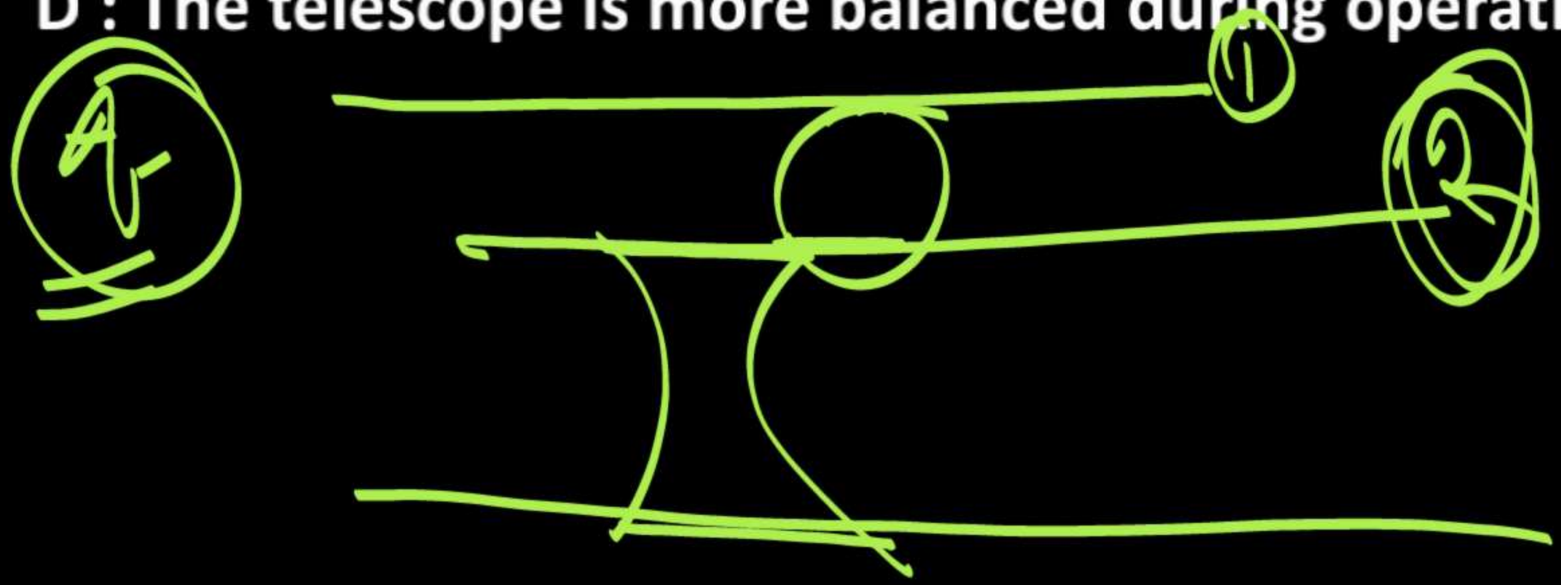
Q:) Which one is the disadvantage of internal focusing telescope?
(SSC JE 23-09-2019)

A : There are two separate tubes

B : There is no movement of sliding tubes

C : The line of collimation is less affected while focuting

D : The telescope is more balanced during operation



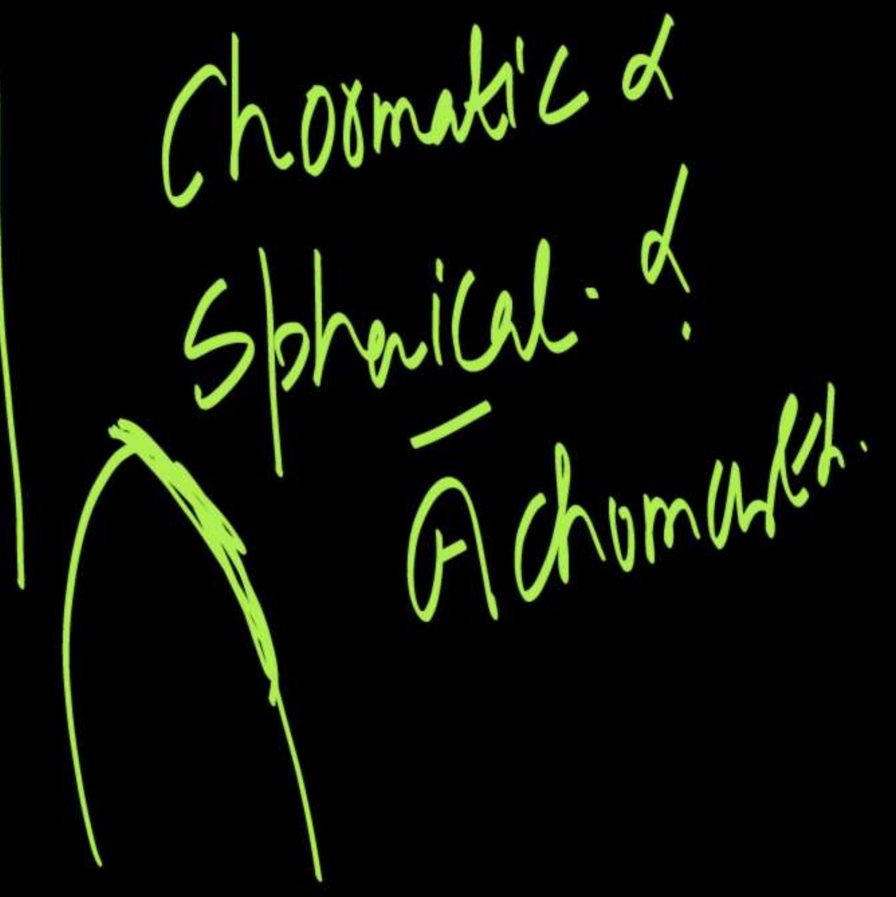
Q:) Which of the following qualities is desirable in a good surveyor's telescope?
(SSC JE 23-09-2019 morning)

A : Chromatic aberration

B : Achromatism

C : Very high magnification

D : Spherical aberration



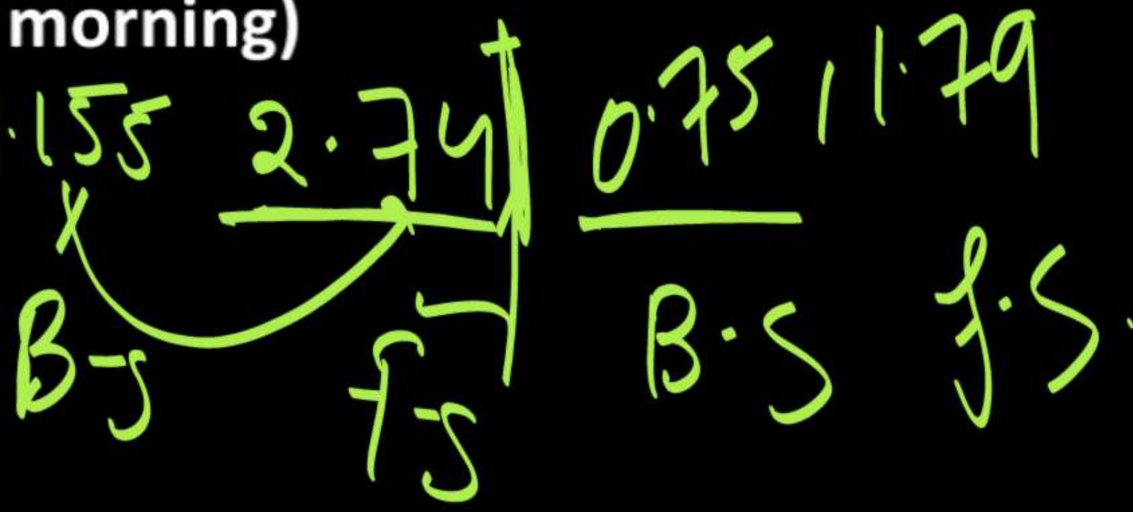
Q:) A levelling was carried out along a falling gradient using a dumpy level and a levelling staff of 3 m length.The following successive readings were taken: 1.155, 2.74, 0.75, 1.79 m. What is the correct order of booking the four readings in the field book? (BS: back sight, FS: fore sight, IS: intermediate sight)
(SSC JE 25-09-2019 morning)

A : BS, FS, BS, FS

B : BS, IS, BS, FS

C : BS, FS, IS, FS

D : BS, IS, FS, BS



Q.

Q:) _____ makes use of the phenomenon that difference in elevation between two points is proportional to the difference in their atmospheric pressure.
(Civil ESIC JE 2019)

A : Differential levelling
B : Trigonometric levelling
C : Barometric levelling
D : Spirit levelling

Q:) How many types of levels are used in surveying?
(Hariyana SSC JE Shift I 09-04-2018)

A : 6

B : 8

C : 7

D : 5

नाम - H. Wook.

Q:) The combined error due to curvature and refraction is:
(DMRC JE 12.04.2018, 12:15 pm)
OR
If the distance between two points A and B is 1 km, the combined correction for curvature and refraction will be
(U.K. Combined A E Paper II 2012)

A : $0.0637\ D^2$
B : $0.0637\ D^3$
C : $0.0673\ D^3$
D : $0.0673\ D^2$

$C_{combine} = -0.0673 d^2$

$= -0.0673$

Q:) If the back sight and fore sight distance are kept equal during levelling observation, then the effect of both refraction and earth's curvature will be.....
(M.P. Sub Engg. 2 Sep 2018 2.00 pm)

A : Zero

B : 0.06735 d^2 meters

C : (2/3)d^2meters

D : 0.057 d^2 meters

B.

Q:) Which of the following relations does't apply for dumpy level?

DMRC JE 12.04.2018, 12:15 pm

A : The axis of each plate level should lies in a plane parpendicular to the vertical axis

B : When the vertical axis is perpendicular to the horizontal axis, vertical circle should read zero

theodolite

C : The axis of the telescope level should be parallel to the line of sight

D : The line of collimation should coincide with the axis of the telescope

Q:) In permanent adjustment of dumpy level, the principle of reversal states that "If any error exists in certain parts of an instrument, is _____ on reversing i.e. revolving through 180^0 the position of the part" (LMRC JE 13-05--2018 shift -I)

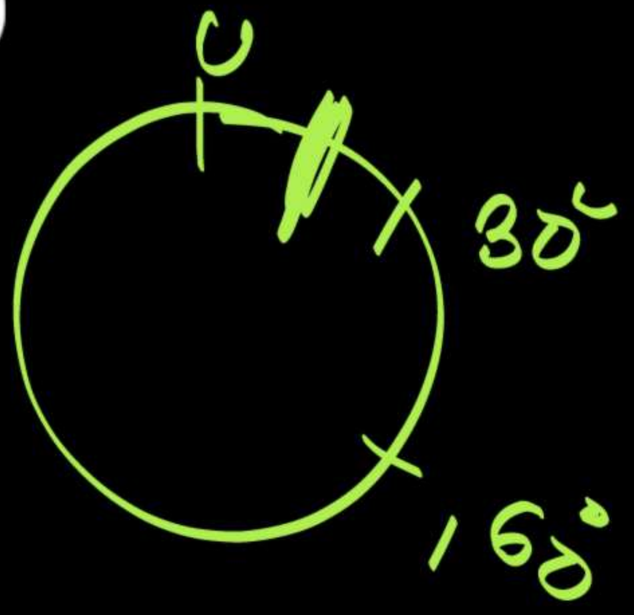
A : Reduced by half

B : Doubled

C : Becomes 4 times

D : Remains the same

B



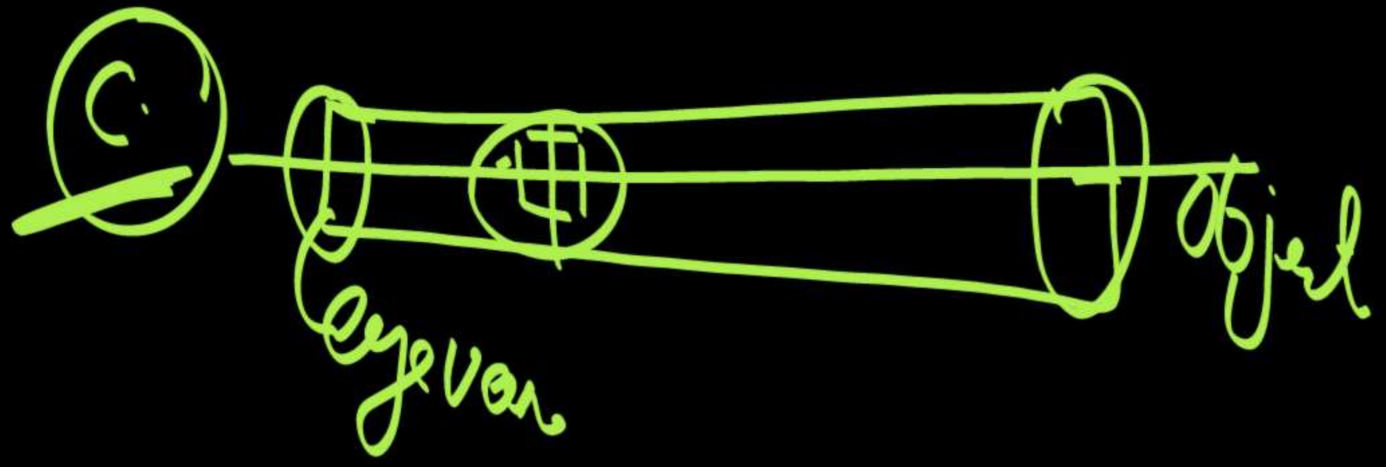
Q:) If the bubble of the level tube of dumpy level remains in center it means:
(UP JAL NIGAM JE 2016)

A : Axis of telescope is horizontal

B : Line of collimation is horizontal

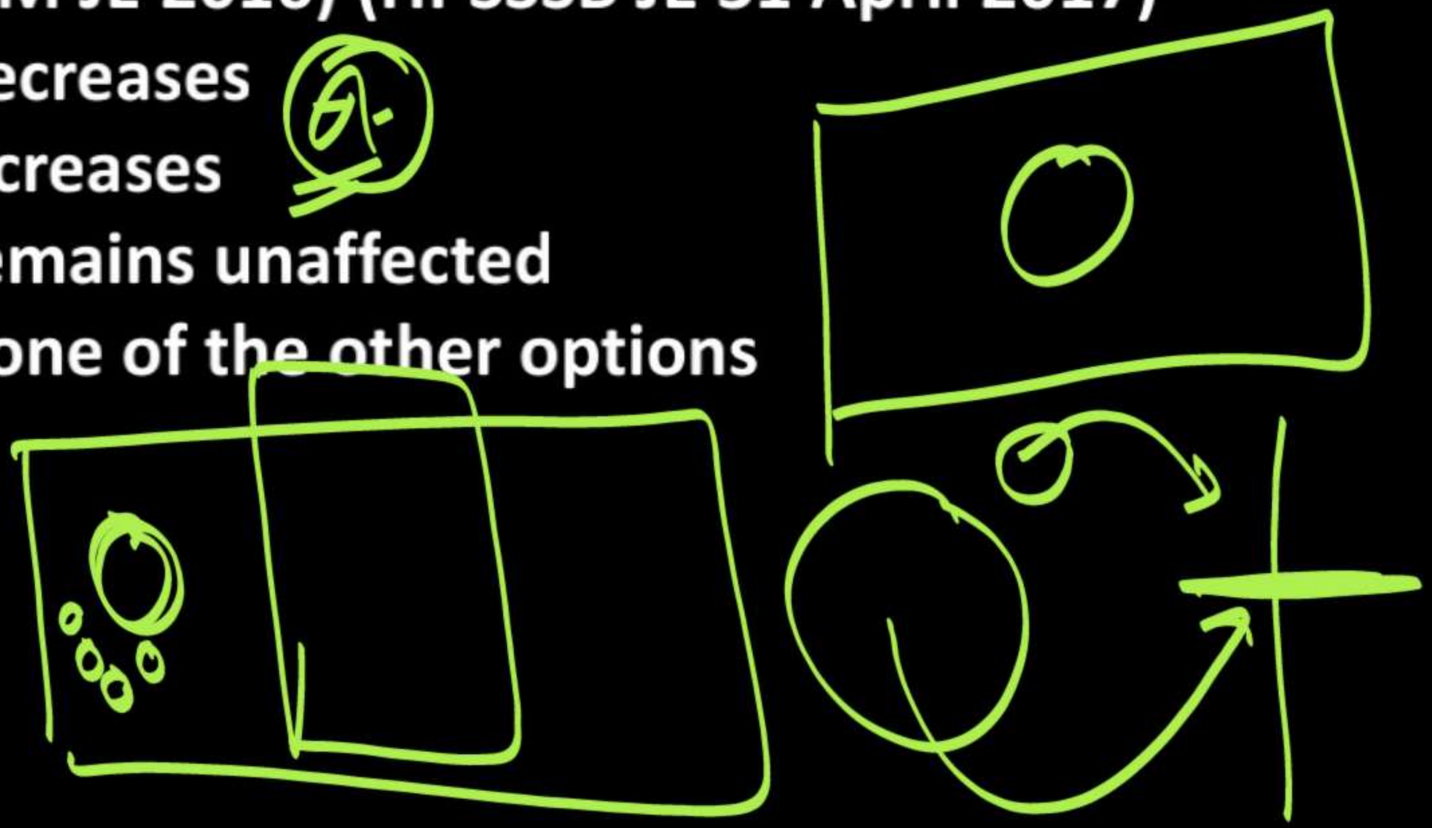
C : Line of sight is horizontal

D : Geometrical axis of telescope is horizontal



Q:) With the rise of temperature, the sensitiveity of a bubble tube:
(Chhattisgarh professional exam, board 2016/UPJAL NIGAM JE 2016) (HPSSSB JE 31 April 2017)

A : Decreases
B : Increases
C : Remains unaffected
D : None of the other options



Q:) The staff reading at a distance of 80 m from a level with the bubble at centre is 1.31m. When the bubble is moved 5 divisions out of the centre, the reading is 1.39 m.Then the angular value of one division of the bubble is

(Hariyana SSC JE 2015)

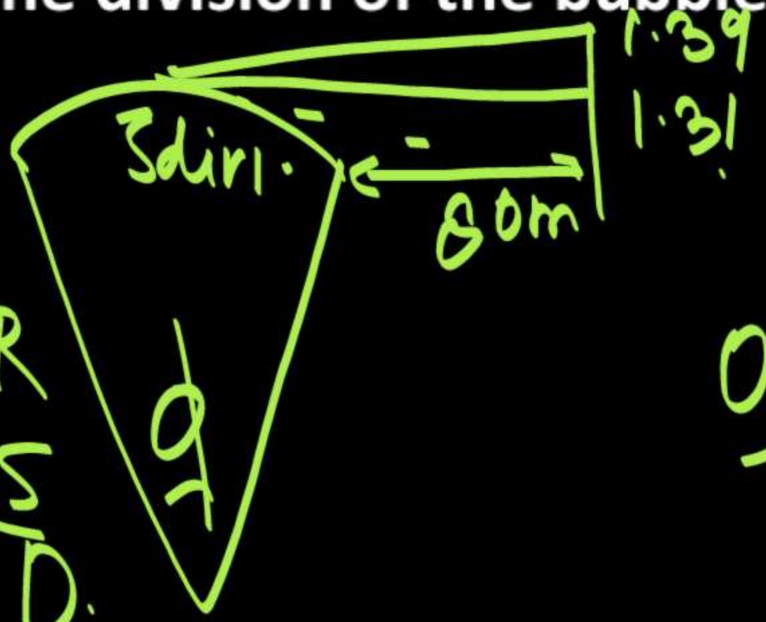
A : 28.78 sec

B : 41.25 sec

C : 14.25 sec

D : 25.05 sec

B.



$\phi = \frac{nd}{R} = \frac{5 \times D}{R}$

$\phi = 206265 \times \frac{5 - 0.08}{5 \times 80}$

0·08m

Q:) Height of collimation method is ____ and _____ labour is required as comared to rise and fall method. (UPPCL JE 2016)

A : Rapid, more

B : Rapid, less

C : Slow, less

D : Slow, more

Q:) The method of levelling in which the height of mountain are found by observing the temperature at which water boils is known as:
(ESIC JE 2016)

A : Barometric levelling

B : Reciprocal levelling

C : Longitudinal levelling

D : Hypsometry

Q:) Chromatic aberration in a telescope is reduced by using:
(DMRC 2016)

A : A convex lens

B : Compound lens covex and concave lenses

C : A concave lenses

D : Two convex lenses

Canada Balsm.

Q:) Following continuous reading were taken/ recorded in a Dumpy level and a 3 mtr long staff-

0.425, 1.035, 2.360, 2.950, 0.750, 1.565, 2.450, 0.320, 1.025, 2.955

Which of the following are backsight reading?

(LMRC JE 2016)

A : 0.425, 0.750, 0.320, 2.955

B : 0.425, 0.750, 0.320

C : 0.425, 2.360, 0.750, 0.320

D : 0.425, 2.950, 0.750, 0.320

Q:) Which minor instrument is used in surveying?
(BECIL NMRC JE CIVIL 15.09.2019)

A : Auto level

B : Abney level

C : Dumpy level

D : Wye level

Q:) Which of the following instrument is used as a clinometer?
(UPRVUNL JE 09-11-2016/Hariyana SSC JE 2015)

A : Optical square

B : Line ranger

C : Prism square

D : Abney level

Q:) To the sum of the first and last ordinates, add twice the sum of the intermediate ordinates.The total sum thus obtained is multiplied by the common distance between the ordinates.One-half of this product gives the required area.This rule of finding the area is called (NBCC JE 2018 morning shift)

A : Mid-ordinate rule

B : Trapezoidal rule

C : Average ordinate rule

D : Simpson's rule

Q:) The maximum allowable limit, that a measurement may vary from the true value or from a value previously adopted as correct is called-
(Hariyana SSC JE)

A : Accuracy

B : Precision

C : Permissible error

D : Discrepancy

THANK YOU
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