The main difference between an optical square and a prism square is

- a. Difference in principle of working
- b. That optical square is more accurate than prism square
- That no adjustment is required in a prism square the angle between the reflecting surfaces cannot be changed
- d. All of the above

The angle of intersection of the two plane mirrors of an optical square is

- a. 30°
- b. 45°
- c. 60°
- d. 90°

The allowable length of an offset depends upon the

- a. Degree of accuracy required
- Method of setting out the perpendiculars and nature of ground
- c. Scale of plotting
- d. All of the above

Which of the following angles can be set out with the help of French cross staff?

- a. 45º only
- b. 90° only
- c. Either 45° or 90°
- d. Any angle

Which of the following methods of offsets involves less measurement on the ground?

- a. Method of perpendicular offsets
- b. Method of oblique offsets
- c. Method of ties
- d. All involve equal measurement on the ground

The permissible error in chaining for measurement with chain on rough or hilly ground is

- a. 1 in 100
- b. 1 in 250
- c. 1 in 500
- d. 1 in 1000

The correction for sag is

- a. Always additive
- b. Always subtractive
- c. Always zero
- d. Sometimes additive and sometimes subtractive

Cross staff is ar instrument used for

- a. Measuring approximate horizontal angles
- b. Setting out right angles
- c. Measuring bearings of the lines
- d. None of the above

Normal tension is the pull which

- a. Is used the time of standardising the tape
- b. Neutralizes the effect due to pull and sag
- c. Makes the correction due to sag equal to zero
- d. Makes the correction due to pull equal to zero

Which of the following is not used in measuring perpendicular offsets?

- a. Line ranger
- b. Steel tape
- c. Optical square
- d. Cross staff

If the length of a chain is found to be short on testing, it can be adjusted by

- a. Straightening the links
- b. Removing one or more small circular
- Closing the joints of the rings if opened out
- d. All of the above

The maximum tolerance in a 20 m chain is

- a. ±2 mm
- b. ±3 mm.
- c. ±5 mm
- d. ±8 mm

For accurate work, the steel band should always be used in preference to chain because the steel band

- a. Is lighter than chain
- b. Is easier to handle
- c. Is practically inextensible and is not liable to kinds when in use
- d. Can be easily repaired in the field

The length of a chain is measured from

- a. Centre of one handle to centre of other handle
- b. Outside of one handle to outside of other handle
- c. Outside of one handle to inside of other handle
- d. Insider of one handle to insider of other handle

Select the incorrect statement.

- The true meridians at different places are parallel to each other
- The true meridian at any place is not variable.
- c. The true meridians converge to a point in northern and southern hemispheres.
- d. The maps prepared by national survey departments of any country are based on true meridians.

If the true bearing of a line AB is 269° 30, then the Azimuth of the line AB is

- a. 0º 30'
- b. 89° 30'
- c. 90° 30'
- d. 269º 30'

In the prismatic compass

- a. The magnetic needle moves with the box
- The line of the sight does not move with the box
- c. The magnetic needle and graduated circle do not move with the box
- d. The graduated circle is fixed to the box and the magnetic needle always remains in the N-S direction.

For a line AB

- The forbearing of AB and back bearing of AB differ by 180°
- the forbearing of AB and back bearing of BA differ by 180°
- c. Both (a) and (b) are correct
- d. None of the above

Local attraction in compass surveying may exist due to

- a. Incorrect leveling of the magnetic needle
- b. Loss of magnetism of the needle
- Friction of the needle at the pivot
- d. Presence of magnetic substances near the instrument

If the quadrantal bearing of a line is N 25° W, then the whole circle bearing of the

line is

- a. S 25° E
- b. 205°
- c. 335º
- d. 295°



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