

QUIZ NO: 753

TOPIC: SURVEYING

DATE: 31/08/2023

1. The shrinkage factor of an old map is $\frac{24}{25}$ and the RF is $\frac{1}{2400}$. The corrected scale of the map is _____

- [A] $\frac{1}{2500}$
- [B] $\frac{1}{600}$
- [C] $\frac{1}{2400}$
- [D] $\frac{1}{25000}$

Answer: A

2. A 50 m tape is held 2 m out of line. What is the true length?

- [A] 48.02 m
- [B] 48 m
- [C] 49.02 m
- [D] 49.96 m

Answer: D

3. Contour interval, within the limits of a map:

- [A] May be kept constant
- [B] Must be kept constant
- [C] May not be kept constant
- [D] May vary according to the configuration

Answer: B

4. Assertion A : The magnetic bearings of different lines cannot be regarded as fixed.

Reason R : The magnetic meridian changes its direction due to variation from time to time, the magnetic bearings of the survey line also change.

- [A] Both A and R are true and R is the correct explanation of A
- [B] Both A and R are true but R is not the correct explanation of A
- [C] A is true but R is false
- [D] A is false but R is true

Answer: A

5. During chaining along a straight line with a 20 m chain, the leader of the party has 4 arrows in his hand while the follower has 6 arrows. Distance of the follower from the starting point is

- [A] 4 chains
- [B] 6 chains
- [C] 8 chains
- [D] 12 chains

Answer: B

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6. Relation between Radius 'R' and degree of curve D in curve setting for 20 m chain is:

- [A] $R = 20/D$
- [B] $R = 20 D$
- [C] $R = 1719/ D$
- [D] $R = 1146/D$

Answer: D

7. Sextant is used to measure

- [A] Horizontal angle
- [B] Vertical angle
- [C] Both A and B
- [D] Horizontal distance and vertical distance

Answer: C

8. Latitude of a line is defined as

- [A] Orthographic projection of a survey line on E-W line
- [B] Orthographic projection of a survey line on the reference meridian
- [C] Length of a survey line corrected for various chain/tape corrections
- [D] None of the above

Answer: B

9. The angle between observer's meridian and declination circle is given by

- [A] Azimuth
- [B] Hour Angle
- [C] Bearing
- [D] Declination

Answer: B

10. The imaginary sphere on which stars appear to lie is known as

- [A] Oblate spheroid
- [B] Zenithal sphere
- [C] Astronomical sphere
- [D] Celestial sphere

Answer: D

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