

**QUIZ NO: 694**

**TOPIC: SURVEYING**

**DATE: 25/02/2023**

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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