

**QUIZ NO: 832**

**TOPIC: SURVEY**

**DATE: 25/05/2024**

1. The magnetic bearing of a line AB is  $S45^{\circ}E$  and the declination is  $5^{\circ}$  West.

The true bearing of the line AB is \_\_\_\_\_.

- [A]  $S45^{\circ}E$
- [B]  $S40^{\circ}E$
- [C]  $S50^{\circ}E$
- [D]  $S50^{\circ}W$

**Answer: C**

2. Which of the following statements is FALSE?

- [A] Plumb line is along the directions of gravity
- [B] Mean Sea Level (MSL) is used as a reference surface for establishing the horizontal control
- [C] Mean Sea Level (MSL) is a simplification of the Geoid
- [D] Geoid is an equi-potential surface of gravity

**Answer: B**

3. Curvature correction to a staff reading in differential levelling survey is \_\_\_\_\_

- [A] Always subtractive
- [B] Always additive
- [C] Always zero
- [D] Can be positive or negative depending on latitude

**Answer: A**

4. The tangential method of tachometry is \_\_\_\_\_

- [A] Slower than stadia hair method
- [B] Faster than stadia hair method
- [C] Preferred as involves less computations to get reduced distances
- [D] Preferred as chances of operational error are less compared to stadia hair method

**Answer: A**

5. The correction to be applied to each 30 m chain length along slope is \_\_\_\_\_:

- [A]  $30(1 - \sec \theta)$  m
- [B]  $30(\sec \theta - 1)$  m
- [C]  $30(1 - \cos \theta)$  m
- [D]  $30(\cot \theta - 1)$  m

**Answer: B**

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6. Local attraction in a compass surveying may be due to \_\_\_\_\_?

- [A] Faulty adjustment in compass
- [B] Presence of magnetic materials
- [C] Loss of magnetism in needle
- [D] Friction of the needle at the point

**Answer: B**

7. The number of spectral bands in the Enhanced Thematic Mapper sensor on the remote sensing satellite Landsat-7 is \_\_\_\_\_

- [A] 64
- [B] 10
- [C] 8
- [D] 15

**Answer: C**

8. In plane table survey, distant and inaccessible points are plotted by \_\_\_\_\_:

- [A] Radiation
- [B] Resection
- [C] Traversing
- [D] Intersection

**Answer: D**

9. Bowditch rule is applied to \_\_\_\_\_?

- [A] An open traverse for graphical adjustment
- [B] A closed traverse for adjustment of closing error
- [C] Determine the effect of local attraction
- [D] All the above

**Answer: B**

10. How high should a helicopter pilot rise at a point A just to see the horizon at point B, if the distance AB is 40 km?

- [A] 101.75 m
- [B] 110.50 m
- [C] 107.75 m
- [D] 105.50 m

**Answer: C**

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