

1. What is surveying primarily concerned with?

- a) Collecting demographic data
- b) Mapping and measuring the earth's surface
- c) Conducting opinion polls
- d) Analyzing financial trends

Answer: b) Mapping and measuring the earth's surface

Explanation: Surveying involves the precise measurement and mapping of land, including its features, boundaries, and elevations.

2. Which principle forms the basis of surveying measurements?

- a) Principle of relativity
- b) Principle of accuracy
- c) Principle of least squares
- d) Principle of consistency

Answer: a) Principle of relativity

Explanation: The principle of relativity states that all measurements in surveying are made relative to a known reference point or line.

3. Which classification of surveying focuses on the extent of the area being surveyed?

- a) Geodetic surveying
- b) Plane surveying
- c) Cadastral surveying
- d) Topographic surveying

Answer: b) Plane surveying

Explanation: Plane surveying deals with small areas where the curvature of the earth is negligible.

4. What is the primary purpose of linear measurement ranging methods?

- a) To establish property boundaries
- b) To determine elevation changes
- c) To measure large areas
- d) To set up control points

Answer: d) To set up control points

Explanation: Linear measurement ranging methods are used to establish precise control

points for subsequent surveying activities.

5. Which accessory is commonly used in linear measurement for support and stability?

- a) Prism
- b) Leveling rod
- c) Theodolite
- d) Tripod

Answer: d) Tripod

Explanation: Tripods provide stability for instruments such as theodolites and total stations during linear measurements.

6. In chain surveying, what is the primary instrument used for linear measurement?

- a) Tape measure
- b) Chain
- c) Compass
- d) Ranging rod

Answer: b) Chain

Explanation: Chain surveying involves the use of a chain for linear measurements along survey lines.

7. Which type of surveying relies on magnetic bearings for orientation?

- a) Chain surveying
- b) Compass surveying
- c) Plane table surveying
- d) Theodolite surveying

Answer: b) Compass surveying

Explanation: Compass surveying uses a compass to determine direction and bearings for measurements.

8. What instrument is central to plane table surveying?

- a) Sextant
- b) Alidade
- c) Clinometer
- d) Plane table

Answer: d) Plane table

Explanation: Plane table surveying involves the use of a plane table for sketching and recording measurements directly in the field.

9. What is the primary purpose of correction and error analysis in surveying?

- a) To enhance precision
- b) To speed up surveying processes
- c) To create visual representations
- d) To calculate financial costs

Answer: a) To enhance precision

Explanation: Correction and error analysis help identify and rectify inaccuracies, improving the overall precision of surveying measurements.

10. In levelling operations, what is the primary objective of differential levelling?

- a) To determine the curvature of the earth
- b) To measure horizontal distances
- c) To establish elevation differences

d) To calculate area and volume

Answer: c) To establish elevation differences

Explanation: Differential levelling is used to determine the difference in elevation between various points on the earth's surface.

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