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

- a) 4 chains
- b) 6 chains
- c) 120 m
- d) 180m

Ans: b

2. A metallic tape is made of

- a) steel
- b) invar
- c) linen
- d) cloth and wires

Ans: d

3. For a well-conditioned triangle, no angle should be less than

- a) 20°
- b) 30°
- c) 45°
- d) 60°

Ans: b

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

- a) 30°
- b) 45°
- c) 60°
- d) 90°

Ans: b

5. The allowable length of an offset depends upon the

- a) degree of accuracy required
- b) method of setting out the perpendiculars and nature of ground
- c) scale of plotting
- d) all of the above

Ans: d

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

- a) 45° only
- b) 90° only
- c) either 45° or 90°
- d) any angle

Ans: c

7. 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

Ans: a

8. 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

Ans: b

9. The correction for sag is

- a) always additive
- b) always subtractive
- c) always zero
- d) sometimes additive and sometimes subtractive

Ans: b

10. Cross staff is an instrument used for

- a) measuring approximate horizontal angles
- b) setting out right angles
- c) measuring bearings of the lines
- d) none of the above

Ans: b