CHAPTER-8 | Playing with Construction

QUIZ PART-11

1. What is the length of line segment PQ?
   A. 2 cm
   B. 4 cm
   C. 6 cm
   D. 10 cm (D)

Explanation : Step (i) says to draw a line segment PQ = 10 cm.

2. At which points are perpendiculars drawn?
   A. S and R
   B. P and Q
   C. P and S
   D. Q and R (B)

Explanation: Step (ii) says to draw perpendiculars at P and Q.

3. Point S is marked on the perpendicular at P such that PS =
   A. 2 cm
   B. 4 cm
   C. 6 cm
   D. 10 cm (A)

Explanation: Step (iii) gives PS = 2 cm.

4. Point R is marked on the perpendicular at Q such that QR =
   A. 2 cm
   B. 4 cm
   C. 6 cm
   D. 10 cm (A)

Explanation: Step (iii) says QR = 2 cm.

5. Which line is joined in step (iv)?
   A. PR
   B. QS
   C. SR
   D. PQ (C)

Explanation : The step clearly says to join SR.

6. After verification, SR is equal to:
   A. 2 cm
   B. 4 cm
   C. 8 cm
   D. 10 cm (D)

Explanation : Step (v) says to verify that SR = 10 cm.

7. Which pair of opposite sides are equal to 10 cm?
   A. PS and QR
   B. PQ and SR
   C. PR and QS
   D. PQ and PS (B)

Explanation : The rectangle has PQ = SR = 10 cm.

8. Which pair of opposite sides are equal to 2 cm?
   A. PQ and SR
   B. PR and QS
   C. PS and QR
   D. PQ and QR (C)

Explanation : The chapter states PS = QR = 2 cm.

9. What is the measure of angle S and angle R?
   A. 45°
   B. 60°
   C. 90°
   D. 180° (C)

Explanation : Step (v) says angle S = angle R = 90°.

10. Why is PQRS a rectangle?
    A. All four sides are equal
    B. Opposite sides are equal and all angles are 90°
    C. Only two angles are 90°
    D. It has one long side only (B)

Explanation : A rectangle must have equal opposite sides and four right angles, and PQRS satisfies both properties.