

Chapter: 4

Q.1 Choose the correct alternative. (3)

- 1) Every point on the perpendicular bisector of a segment is equidistant from its end points.
a. True b. False
- 2) Triangles can be constructed if is given.
a. Dimensions of all the three sides
b. Dimension of base and two adjacent angles
c. Dimension of two sides and included angle
d. All of the above
- 3) Triangle can not be drawn if its base, angle adjacent to base difference between remaining sides is given.
a. True b. False

Q.2 Solve the following questions. (Any three) (9)

- 1)
Construct $\triangle LMN$, such that $MN = 6.2$ cm, $\angle M = 50^\circ$, $LN - LM = 2.4$ cm.
- 2)
Construct $\triangle ABC$, in which $BC = 6.2$ cm, $\angle ACB = 50^\circ$, $AB + AC = 9.8$ cm.
- 3)
Construct $\triangle PQR$, in which base $OR = 6.7$ cm, $\angle PQR = 45^\circ$ and $PR - PQ = 2.8$ CM.
- 4)
Construct $\triangle PQR$, where base $QR = 4.1$ cm, $\angle Q = 60^\circ$ and $PQ + PR = 8.5$ cm.

Q.3 Solve the following questions. (Any two) (8)

- 1)
Construct $\triangle XYZ$ whose perimeter is 12 cm and $\angle Y = 70^\circ$, $\angle Z = 80^\circ$.
- 2) The perimeter of a triangle is 14.4 cm and the ratio of lengths of its side is 2 : 3 : 4.
Construct the triangle.
- 3)
Construct $\triangle ABC$, in which side $BC = 7$ cm, $\angle B = 40^\circ$ and $AC - AB = 3$ cm.