## CHAPTER-7 COORDINATE GEOMETRY

1. Which of the following is not a criterion for congruence of triangles?

## EXERCISE - 7.1

(a) SAS

PQ is

In each of the following, write the correct answer:

(b) ASA			
(c) SSA			
(d) SSS			
2. If AB=QR,BC=PR and CA=PQ,then			
(a) $\triangle ABC \cong \triangle PQR$			
(b) $\triangle CBA \cong \triangle PRQ$			
(c) $\triangle BAC \cong \triangle RPQ$			
(d) $\triangle PQR \cong \triangle BCA$			
3. In $\triangle ABC,AB=AC$ and $\angle B=50^{\circ}.Then\ \angle C$ equal to			
(a) $40^{\circ}$			
(b) 50°			
(c) 80°			
(d) 130°			
4. In $\triangle ABC,BC=AB$ and $\angle B=80^{\circ}.Then$ $\angle A$ is equal to			
(a) 80°			
(b) $40^{\circ}$			
(c) $50^{\circ}$			
(d) 100°			

5. In  $\triangle PQR, \angle R = \angle P$  and QR = 4 cm and PR = 5 cm. Then the length of

(	(a)	4	cm

- (b) 5 cm
- (c) 2 cm
- (d) 2.5 cm
- 6. D is a point on the side BC of a  $\triangle$ ABC such that AD bisects  $\angle$ BAC. Then
  - (a) BD = CD
  - (b) BA > BD
  - (c) BD > BA
  - (d) CD > CA
- 7. It is given that  $\triangle ABC \cong \triangle FDE$  and AB=5 cm,  $\angle B=40^{\circ}$  and  $\angle A=80^{\circ}$ . Then which of the following is true?
  - (a) DF=5 cm, $\angle$ F=60°
  - (b) DF=5 cm, $\angle$ E=60°
  - (c) DE=5 cm, $\angle$ E=60°
  - (d) DE=5 cm, $\angle$ D=40°
- 8. Two sides of a triangle are of lengths  $5~\mathrm{cm}$  and  $1.5~\mathrm{cm}$ . The length of the third side of the triangle cannot be
  - (a) 3.6 cm
  - (b) 4.1 cm
  - (c) 3.8 cm
  - (d) 3.4 cm
- 9. In  $\triangle PQR$ , if  $\angle R > \angle Q$ , then
  - (a) QR>PR
  - (b) PQ>PR
  - (c) PQ<PR
  - (d) QR < PR

- 10. In triangles ABC and PQR , AB=AC, ∠C=∠P and ∠B=∠Q. The two triangles are
  - (a) isosceles but not congruent
  - (b) isosceles and congruent
  - (c) congruent but not isosceles
  - (d) neither congruent nor isosceles
- 11. In triangles ABC and DEF, AB=FD and  $\angle A=\angle D.$  The two triangles will be congruent by SAS axiom if
  - (a) BC = EF
  - (b) AC = DE
  - (c) AC = EF
  - (d) BC = DE