CHAPTER 7
TRIANGLES

1 EXERCISE 9.7.1

In each of the following,write the correct answer:

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

   (a) SAS

   (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°.Then $\angle$C is equal to

   (a) 40°

   (b) 50°

   (c) 80°

   (d) 130°

4. In $\triangle ABC$, $BC = AB$ and $\angle$B=80°.Then $\angle$A is equal to

   (a) 80°

   (b) 40°

   (c) 50°

   (d) 100°

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

   (a) $4cm$

(b) $5cm$

(c) $2cm$

(d) $2.5cm$

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 $AB = 5cm$, $\angle$B=40° and $\angle$A=80°. Then which of the following is true?

   (a) DF = 5cm, $\angle F$=60°

   (b) DF = 5cm, $\angle E$=60°

   (c) DE = 5cm, $\angle E$=60°

   (d) DE = 5cm, $\angle D$=40°

8. Two sides of a triangle are of lengths 5cm and 1.5cm.The length of the third side of the triangle cannot be

   (a) 3.6cm

   (b) 4.1cm

   (c) 3.8cm

   (d) 3.4cm

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, $AB = AC$, $\angle$C=$\angle$P and $\angle$B=$\angle$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. Then two triangles will be congruent by SAS axiom if

    (a) $BC = EF$

    (b) $AC = DE$

    (c) $AC = EF$

    (d) $BC = DE$