

Paper prepared by

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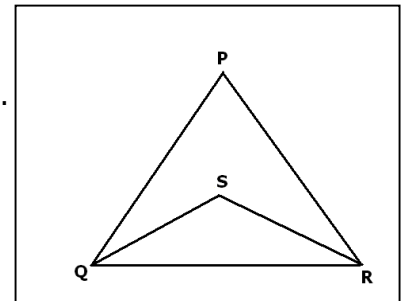
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**Section A MCQ – 1 Mark Each**

- Q.1 Which of the following is not a criterion for congruence of triangles?  
 (a) SAS (b) ASA (c) SSA (d) SSS
- Q.2 The angles of a triangle are in the ratio 5:3:7 . The triangle is  
 (a) an acute angled triangle (b) an obtuse angled triangle  
 (c) an equilateral triangle (d) a right triangle.
- Q.3 In triangles ABC and PQR,  $AB = AC$   $\angle C = \angle P$  and  $\angle B = \angle R$ . The two triangles are  
 (a) Isosceles but not congruent (b) isosceles and congruent  
 (c) congruent but not isosceles (d) neither congruent nor isosceles.
- Q.4 In a right angled triangle , one acute angle is double the other. Then,  
 (a) Hypotenuse=double the smallest side (b) Hypotenuse=triple the smallest side  
 (c) One acute angle is  $48^\circ$  (d)  $\Delta$  is an isosceles.
- Q.5 ABC is an isosceles triangle with  $AB = AC$ . Draw  $AP \perp BC$  . Then  
 (a)  $\angle B = \angle C$  (b)  $\angle B + \angle C = 90^\circ$  (c)  $AP=BP$  (d)  $BP \neq PC$ .

**Section A MCQ – 1 Mark Each**

- Q.6 In the given figure  $PQ > PR$  and QS and RS are the bisectors of  $\angle Q$  and  $\angle R$  respectively. Show that  $SQ > SR$ .

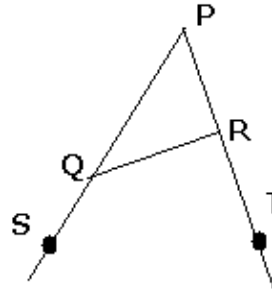


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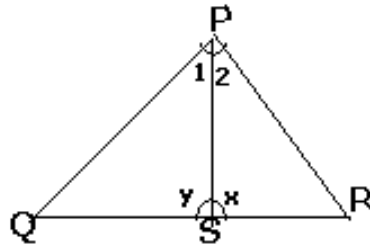
Q.7 In the given figure, sides PQ and PR are produced and  $\angle SQR < \angle TRQ$ .

Prove that  $PR > PQ$ .



Section C – 3 Mark Each

Q.8 In the given figure,  $PR > PQ$  and PS is the bisector of  $\angle QPR$ . Show that  $X > Y$  i.e.



Section D – 4 Mark Each

Q.9 Bisectors of the angles B and C of an isosceles triangle ABC with  $AB = AC$  intersect each other at O. Show that external angle adjacent to  $\angle ABC$  is equal to  $\angle BOC$ .

Q.10 If the bisector of an angle of a triangle also bisects the opposite side, prove that the triangle is isosceles.

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