## JSUNIL TUTORIAL

## Punjabi colony gali no. 01 Triangles class IX

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## Section A MCQ . 1 Mark Each

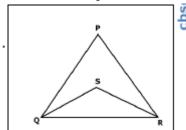
- Q.1 Which of the following is not a criterion for congruence of triangles?
- (a) SAS (b) ASA (c) SSA (d) SSS

MM20

- 0.2 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 = . 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)  $\angle B + \angle C = 90_0$  (c) AP=BP (d) BP $\neq$ PC.

## Section B . 2 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.



Q.7 In the given figure, sides PQ and PR are produced and <SQR \( < \text{TRQ.Prove that PR} > PQ.



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

Time 45 Min