Subject: - Mathematics **TEST PAPER** **CBSE-7th**

Topic: - Trinagles & Its Prop. & Congruence of Triangles **Time: - 60mins, M.M:-40**

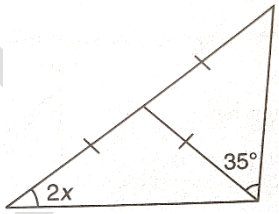
(SECTION A – 1 MARK)

1. If two acute angles of right triangle are equal, then each acute angle is equal to: -

a) 30° b) 45° c) 60° d) 90°

2. In the given triangle, the value of x is: -

a) 55° b) 110° c) 70° d) 27.5°



3. A 26 m ladder is placed against the wall in such a way that the foot of the ladder is 10 cm away from the wall. How up on the wall is the upper end of the ladder?

a) 20 m b) 24 m c) 18 m d) 25 m

4. If $\Delta\, ABC$ and $\Delta\, XYZ$ are equilateral triangles and AB = XY. The condition under which $\Delta\, ABC \cong \Delta\, XYZ$ is: -

a) ASA b) RHS c) SSS d) AAS

5. In a $\Delta\, PQR$, $\angle\, Q = 44°$ and $\angle\, P = 92°$. The pair of equal sides is: -

a) PQ and PR b) QR and PQ c) QR and PR d) None

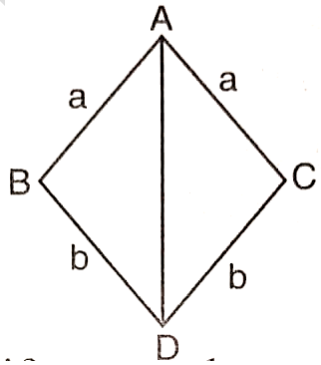
(SECTION B – 2 MARKS)

1. Prove that $\Delta\, BAD \cong \Delta\, CAD$.

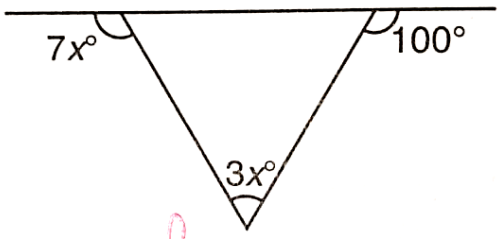
2. Find the value of x.

3. One of the exterior angles of a triangle is 130° and the interior opposite angles are in the ratio 2 : 3. Find the angles of the triangles.

Q.1.



Q.2.

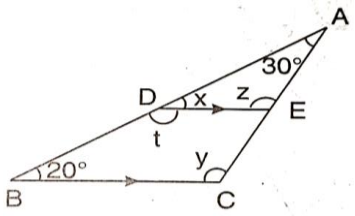


(SECTION C – 3 MARKS)

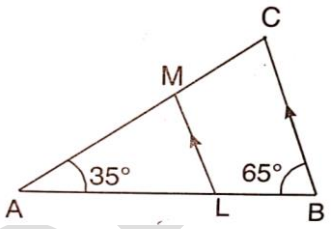
1. In the given figure, $DE \parallel BC, \angle B = 20°$, and $\angle A = 30°$. Find the lettered angles.

2.In the given figure, find $\angle AML$.

Q.1.

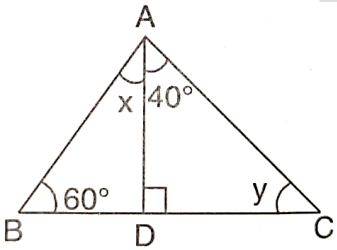


Q.2.



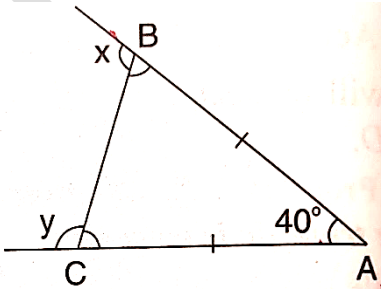
(SECTION D – 4 MARKS)

1. Find the lettered angles.



OR

In fig. ΔABC is isosceles with AB = AC. If $\angle A = 40°$. What are the values of x and y ?



2. In a ΔABC, if $3\angle A = 4\angle B = 6\angle C$. Calculate the angles.

OR

In fig. measures of some angles are indicated. Find measures of $\angle B$ and $\angle C$. Is ΔABC isosceles? If so, name the two sides that are equal.