BCM SCHOOL, BASANT AVENUE DUGRI, LUDHIANA

CLASS IX

SUBJECT: MATHEMATICS

ANSWER KEY OF ASSIGNMENT - CIRCLE

Q1 b)6 cm

Q2 b) 50 °

Q3 d)Assertion is false but reason is true

Q4
$$\angle$$
AOB =2 \angle ACB \angle ACB = 45° In triangle OAB \angle OAB + \angle ABO + \angle BOA = 180° As the angles opposite to equal sides are equal

∠OAB = 45°

In triangle ACB

∠CAO = 60°

Q5 Sum of the opposite angles in a cyclic quadrilateral is 180°

∠ACB = 90° (Angle in a semicircle is right angle)

In triangle ABC

Using the angle sum property ∠BAC = 50°

Q6 Radius is 5.59 cm

Q7 a) ∠COD = 120°

b) Distance between A and C is 24 cm



