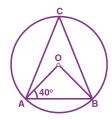
BCM SCHOOL, BASANT AVENUE DUGRI, LUDHIANA CLASS IX

SUBJECT: MATHEMATICS

ASSIGNMENT - CIRCLES

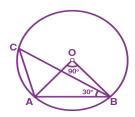
- Q1 The distance of the chord of length 16 cm from the center of the circle of diameter 20 cm is
- a) 3cm
- b) 6cm
- c) 5cm
- d) 4cm
- Q2 In the given figure, if \angle OAB = 40° , then \angle ACB is equal to

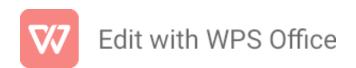


- a) 40^0
- b) 50⁰
- c) 60^{0}
- d) 70⁰
- Q3 Assertion:- The angle made by diameter of a circle on circumference is an obtuse angle.

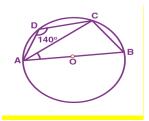
Reason:- Angle in a semi-circle is a right angle.

- a)Both Assertion and reason are correct and reason is correct explanation for Assertion.
- b)Both Assertion and reason are correct but reason is not correct explanation for Assertion.
- c)Assertion is true but reason is false.
- d)Assertion is false but reason is true.
- Q4 In the given figure, $\angle AOB = 90^{\circ}$ and $\angle ABC = 30^{\circ}$, then $\angle CAO$ is equal to:



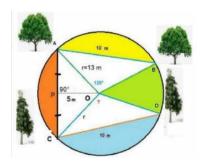


Q5 ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and \angle ADC = 140 $^{\circ}$, then find \angle BAC



Q6 Two chords AB and CD of lengths 5 cm and 11 cm respectively of a circle are parallel to each other and are on opposite sides of its centre. If the distance between AB and CD is 6 cm, find the radius of the circle.

Q7. A farmer has a circular garden as shown in the picture above . He has a different type of tree ,plants and flower plants in his garden. In the garden, there are two mango trees A and B at a distance of AB=10m. Similarly has two Ashok trees at the same distance of 10m as shown at C and D AB subtends \angle AOB=1200 at the center O, The perpendicular distance of AC from center is 5m the radius of the circle is 13m.



NOW ANSWER THE FOLLOWING QUESTIONS.

- 1) What is the value of ∠COD?
- 2) What is the distance between mango tree A and Ashok tree C?
- 3) What is the value of angle ∠OCD?

