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## A Christian Jesuit minority Institution

ClassX

Date:09.04.2020

**Subject- Mathematics** 

Worksheet-3

Chapter- theorems related to angles in a circle Topic-in a circle, angle at the centre is double of the angle on the circumference if they are placed on the same arc

<u>Choose the correct alternative.</u> 1x15=15

 a)In a circle with centre O there is a triangle ABC. A,B, C are lying on the circle. Angle BOC is 120°. Then angle BAC is
 i) 30° ii) 60° iii) 120° iv) none of these

b)Measure of reflex LKOH is

i)200° ii)100°  $\,$  iii)50°  $\,$  iv) none of these



c) If X<sub>2</sub>=80°, Value of Y<sub>2</sub> is i) 30° ii) 40° iii) 80° iv) none of these



d)A ,B ,C are 3 points lying on the circle with centre O. Now O,A ; O,B ; O,C ; A,B and A,C are joined. angle ABO =35° and angle ACO =45° then angle BAC is i) 45° ii) 50° iii) 80° iv) none of these e) A ,B ,C are 3 points lying on the circle with centre O. Now O,A ; O,B ; O,C ; A,B and A,C are joined. angle ABO =35° and angle ACO =45° then angle BOC is i) 45° ii) 160° iii) 80° iv) none of these

e) In referece to fig 1  $\alpha$ =55°,  $\beta$  =25°. angle AOB is i) 160° ii) 80° iii) 40° iv)100°



f)In reference to the above fig 2 ,  $\beta = 30^{\circ}$ , then angle AOB is i) 70° ii) 60° iii) 45° iv) none of these g)In reference to the above fig 3 angle AOB=120°, then angle APB is i) 30° ii) 120° iii) 60° iv) none of these

h)In the following figure If  $\alpha$ =50° then the measure of  $\beta$  is i) 200° ii) 100° iii) 150° iv) none of these



i) In the following figure the measure of x is i) 146° ii) 156° iii) 186° iv) none of these



k) Value of x in the figure below is i) 30° ii)40° iii) 20° iv) none of these



l) A,B,C are such 3 points on the circle with centre 0 that AOCB parallelogram is obtained ,then angle AOC is i)110° ii) 120° iii) 130° iv) none of these m)In the figure below If angle BOC= 45°, then angle BAC is i) 22<sup>1</sup>/<sub>2</sub>° iii) 23° iV) none of these

n) In the figure below ,the measure of angle OPQ is i)  $55^{\circ}$  ii)  $45^{\circ}$  iii)  $30^{\circ}$  iv) none of these

o)If in the figure below  $\theta$ = 44°, then measure of OCA is i) 20° ii) 22° iii) 44° iv) none of these

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