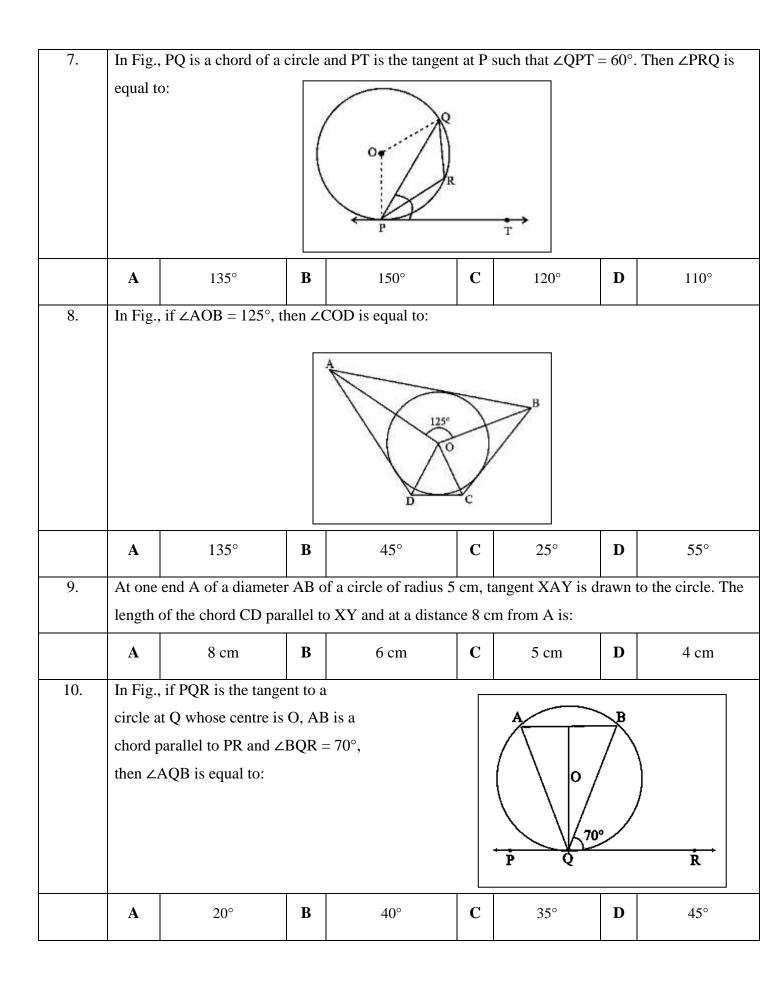
Department of Mathematics				INDIAN SCHOOL AL WADI AL KABIR Class X, Mathematics Worksheet-Circles					
Q. No.	MCQ								
	Questions of 1 Mark each.								
1.	In the g	given figure, PQ is a	a tange	ent to the circle with			/		
	centre	O. If $\angle OPQ = x$ , $\angle P$	POQ =	у,			$\langle$		
	then $x + y$ is: P $O$								
	A	90°	В	60°	С	180°	D	45°	
2.	In the g	given figure, TA is a	a tange	ent to the circle with					
	centre O such that $OT = 4 \text{ cm}$ , $\angle OTA = 30^{\circ}$ , then length of								
	TA is:								
	A	$2\sqrt{3}$ cm	В	2 cm	С	$2\sqrt{2}$ cm	D	$\sqrt{3}$ cm	
3.	In the g BP is:	given figure, AB = I	BC = 1	0 cm. If AC = 7 cm,	then	the length of	P A	R R R R	
	A	3.5 cm	B	7 cm	С	6.5 cm	D	5 cm	

4.	In the g	given figure, AC and	l AB a	are tangents to a circl	e			
	centere	d at O. If ∠COD =	120°, 1	then ∠BAO is equal	to:	A	B	0 /
	Α	30°	В	60°	С	45°	D	90°
5.	In the given figure, PA and PB are tangents from external point P to a circle with centre C and Q is any point on the circle. Then the measure of $\angle AQB$ is:							
				P 55°		QQ		
	Α	$66\frac{1}{2}^{0}$	В	125°	С	55°	D	90°
б.	In the a	djoining figure, PA	and P	B are tangents from	a poir	nt P		
	to a cir a:	cle with centre O. T	hen th	e quadrilateral OAP	B mus	0	A	P
	A	square	В	rhombus	С	cyclic quadrilateral	D	parallelogram



	<b>DIRECTION:</b> In the question number 11, 12 and 13, a statement of <b>assertion</b> ( <b>A</b> ) is followed by								
	statement of <b>Reason</b> ( <b>R</b> ). Choose the correct option.								
	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion								
	(A)								
	(b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of								
	assertion (A)								
	(c) Assertion (A) is true but reason (R) is false.								
(d) Assertion (A) is false but reason (R) is true.									
11.	Assertion(A): PA and PB are tangents to the circle centred at O and $\angle OPA = 30^{\circ}$ . Then, $\triangle PAB$ is								
	an equilateral triangle.								
	Reason(R): Lengths of tangents from an external point to a circle are equal in length.								
		Г							
12.	12.       Assertion(A): A tangent to a circle is perpendicular to the radius through the point of control of the radius through the point of control of the radius through the point of								
12.				nts drawn from an e					
13.			Ũ			1		•	
15.	Assertion(A):If PA and PB are tangents drawn from an external point P to a circle with centre O, then the quadrilateral AOBP is cyclic.								
	Reason (R): The angle between two tangents drawn from an external point to a circle is								
	supplementary to the angle subtended by the line segment joining the points of contact at the								
	centre.								
	Answers								
	1	А	2	А	3	С	4	А	
'ers	5	А	6	С	7	С	8	D	
Answers	9	А	10	В		<u>I</u>	1	I	
	11	а	12	b	13	a			