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Paper prepared by

DevAnoop

Teacher St. Joseph's Convent School Bathinda

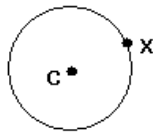
Email: devanoop@devanoop.com

Section A MCQ – 1 Mark Each

Q.1 Distance of a chord xy of a circle from the centre is 4cm and length of the chord is 6 cm. Then diameter of the circle is

- (a) 10 cm (b) 15 cm (c) $\sqrt{72}$ cm (d) 20 cm

Q.2 In the figure, point X lies



- (a) inside the circle (b) on the circle
(c) outside the circle (d) none of these

Q.3 The region between an arc and the two radii, joining the centre to the end points of the arc is called a

- (a) sector (b) segment
(c) semicircle (d) None of these

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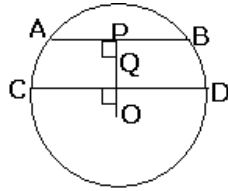


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Section B – 2 Mark Each

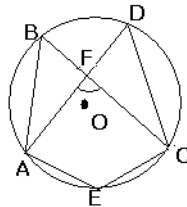
- Q.4 In the given figure, O is the Centre of the circle of radius 5cm. and $CD = 8$ cm. Determine PQ.



- Q.5 Two circles intersect at two points B and C. Through B two line segments ABD and PBQ are drawn. Prove that $\angle ACP = \angle QCD$.

Section C – 3 Mark Each

- Q.6 In the given figure, ABCE is a cyclic quadrilateral, O is centre of circle if $\angle AEC = 110^\circ$ Then find $\angle ABC$ and $\angle ADC$.



- Q.7 If two non-parallel sides of a trapezium are equal, prove that it is cyclic.
- Q.8 ABCD is cyclic quadrilateral. If AC bisects both the angles A and C, then prove that $\angle ABC = 90^\circ$.

Section D – 4 Mark Each

- Q.9 The bisectors of the opposite angles A and C of a cyclic quadrilateral ABCD intersect the circle at the points X and Y, respectively. Prove that XY is a diameter of the circle.

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