



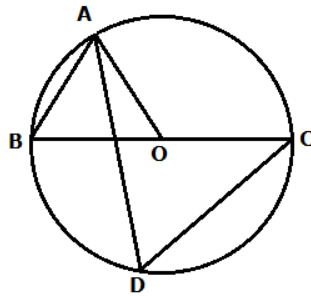
MM 25

Circles

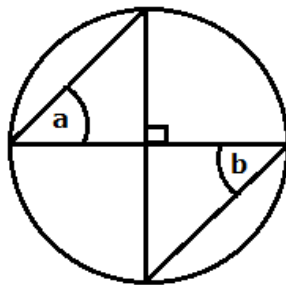
Time 1hrs

Section A 1 Mark Each

1. ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and $\angle ADC = 120^\circ$, then $\angle BAC$ is equal to:
(A) 70° (B) 35° (C) 30° (D) 140°
2. BC is a diameter of the circle and angle $\angle BAO = 80^\circ$. Then $\angle ADC$ is equal to
(A) 100° (B) 50° (C) 80° (D) none of these



3. If $AB = 40$ cm, $BC = 9$ cm and AB is perpendicular to BC, then the radius of the circle passing through the points A, B and C is :
(A) 30 cm (B) 41 cm (C) 20.5 cm (D) 40.5
4. In figure, $a + b$ is equal to
(A) 100° (B) 45° (C) 90° (D) 180°



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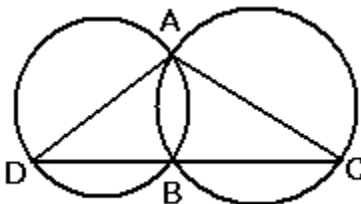
Circles

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5. PS is a diameter of a circle and PQ is a chord. If $PS = 10$ cm, $PQ = 8$ cm, the distance of PQ from the centre of the circle is :
(A) 3 cm (B) 6 cm (C) 10 cm (D) 8 cm

Section B 2 Marks Each

6. If A, B, C and D are four points such that $\angle BAC = 53^\circ$ and $\angle BDC = 53^\circ$, then show points A, B, C, D are concyclic.
7. Prove angle in a semicircle is a right angle.
8. Two circles intersect at two points A and B. AD and AC are diameters to the circles. Prove that B lies on the line segment DC.



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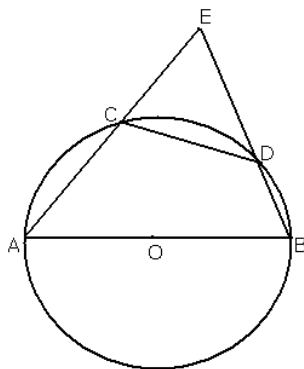
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Section C 3 Marks Each

9. AB is a diameter of the circle with centre O, CD is a chord equal to the radius of the circle. AC and BD when extended intersect at point E. Prove that $\angle AEB = 60^\circ$.



10. If P, Q and R are the mid-points of the sides BC, CA and AB of a triangle and AD is the perpendicular from A on BC, prove that P, Q, R and D are concyclic.

Section D 4 Marks Each

11. If a pair of opposite sides of a cyclic quadrilateral are equal, prove that its diagonals are also equal.
12. An equilateral triangle of side 40cm is inscribed in a circle. Find radius of circle.

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