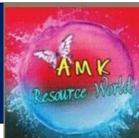
AMK Resource World

SSLC - Daily Practice Papers



CIRCLES

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MATHS PRACTICE PAPER 06

Total Marks: 20

I. Choose the Most Appropriate Answers

 $3 \times 1 = 3$

- 1. From a point P which is at a distance of 13 cm from the point O of a circle of radius 5 cm, the pair of tangents PQ and PR to the circle are drawn. Then the area of the quadrilateral PQOR is
 - a. 60 cm²

c. 30 cm²

b. 65 cm²

- d. 32.5 cm²
- 2. If two tangents inclined at an angle 60° are drawn to a circle of radius 3 cm the length of each tangent is equal to
 - a. $3/2\sqrt{3}$ cm

c. 3 cm

b. 6 cm

- d. $3\sqrt{3}$ cm
- 3. If radii of two concentric circles are 4 cm and 5 cm, then the length of each chord of one circle which is tangent to the other circle is

a. 3 cm

c 9 cm

b. 6 cm

d. 1 cm

II. Solve the following

 $2 \times 1 = 2$

- 4. A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that OQ = 12 cm. Find Length PQ
- 5. Draw a circle and two lines parallel to a given line such that one is a tangent and the other, a secant to the circle

III. Solve the following

 $4 \times 2 = 8$

- 6. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm, then find the radius of circle
- 7. In figure, if TP and TQ are the two tangents to a circle with centre O so that $\angle POQ = 110^{\circ}$, then Find $\angle PTQ$

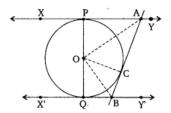


- 8. Prove that the tangents drawn at the ends of a diameter of a circle are parallel.
- 9. If tangents PA and PB from a point P to a circle with centre O are inclined to each other at angle of 80°, then Find ∠POA.

IV. Solve the following

 $1 \times 3 = 3$

10. In figure, XY and X'Y' are two parallel tangents to a circle, x with centre O and another tangent AB with point of contact C intersecting XY at A and X'Y' at B. Prove that $\angle AOB = 90^{\circ}$.



V. Solve the following

 $1 \times 4 = 4$

11. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle

