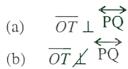
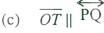
## MISCELLANEOUS EXERCISE – 10

## Q. 1 Four possible answers are given for the following questions.

- 1. In the adjacent figure of the circle, the line PQ is named as.
  - (a) an arc
  - (b) a chord
  - (c) a tangent
  - (d) a secant
- In a circle with centre O, OT is the 2. radical segment and PTQ is the tangent line, then

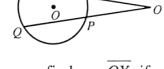




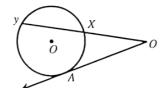




- In the given diagram find m OA if 3.  $m = \overline{OP} = 4cm$ m OB = 8cmmOQ = 12cm
  - 2cm (a)
  - 2.67 (b)
  - (c) 2.8 cm
  - (d) 3cm

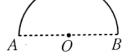


- In the given diagram find m  $\overline{OX}$  if 4.  $\overline{OA} = 6$ cm and  $\overline{OY} = 9$ cm
  - 4cm (a)
  - (b) 6cm
  - 9cm (c)
  - (d) 12cm

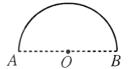


- In the adjacent figure find semicircular 5. area if  $\pi \approx 3.1416$  and m OA = 20cm.
  - (a) 62.83sq cm
  - (b) 314.16sq cm



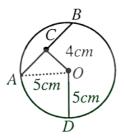


- (d) 628.32sq cm
- In the adjacent figure find half the 6. perimeter of circle with center O if  $\pi = 3.1416$  and m OA = 20cm.
  - (a) 31.42 cm
  - (b) 62.832 cm
  - (c) 125.65 cm

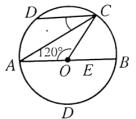


- (d) 188.50 cm
- A line which has two points in common 7. with a circle is called.
  - (a) sine of a circle
  - (b) cosine of a circle
  - (c) tangent of a circle
  - (d) secant of a circle
- 8. A line which has only one point in common with a circle is called
  - (a) sine of a circle
  - (b) cosine of a circle
  - (c) tangent of a circle
  - (d) secant of a circle
- 9. Two tangents drawn to a circle from a point outside it are .....in length
  - (a) half
- (b) equal
- (c) double
- (d) triple
- 10. A circle has only one.
  - (a) secant
- (b) chord
- (c) diameter
- (d) centre
- 11. A tangent line intersects the circle at.
  - three points
- (b) two points
- single point
- (d) no point at all

- 12. Tangents drawn at the ends of diameter of a circle are..... to each other.
  - (a) parallel
- (b) non-parallel
- (c) collinear
- (d) perpendicular
- 13. The distance between the centres of two congruent touching circles externally is
  - (a) of zero length
  - (b) the radius of each circle
  - (c) the diameter of each circle
  - (d) twice the diameter of each circle
- 14. In the adjacent circular figure with centre O and radius 5cm. The length of the chord intercepted at 4cm away from the centre of this circle is
  - (a) 4cm
  - (b) 6cm
  - (c) 7cm
  - (d) 9cm



- 15. In the adjoining figure there is a circle with centre O. If  $\overline{DC} \parallel$  diameter  $\overline{AB}$  and  $m\angle AOC = 120^{\circ}$ , then  $m\angle ACD$  is
  - (a) 40°
  - (b) 30°
  - (c) 50°
  - (d) 60°



## ANSWER KEY

1.	С	2.	a	3.	b	4.	a	5.	d
6.	b	7.	d	8.	С	9.	b	10.	d
11.	С	12.	a	13.	С	14.	b	15.	b