

Circles

Question 1.

If there a	re two	separate	circles	drawn	apart:	from	each	other,	then	the	maximun	n nu	ımber	of
common	points	they hav	e:											

- (a) 0
- (b) 1
- (c) 2
- (d) 3

Answer: (a) 0

Question 2.

D is diameter of a circle and AB is a chord. If AD = 50 cm, AB = 48 cm, then the distance of AB from the centre of the circle is

- (a) 6 cm
- (b) 8 cm
- (c) 5 cm
- (d) 7 cm

Answer: (d) 7 cm

Ouestion 3.

In a circle with center O and a chord BC, points D and E lie on the same side of BC. Then, if $\angle BDC = 80^{\circ}$, then $\angle BEC =$

- (a) 80°
- (b) 20°
- (c) 160°
- (d) 40°

Answer: (a) 80°

Question 4.

The center of the circle lies in of the circle.

- (a) Interior
- (b) Exterior
- (c) Circumference
- (d) None of the above

Answer: (a) Interior

Question 5.

If chords AB and CD of congruent circles subtend equal angles at their centres, then:

- (a) AB = CD
- (b) AB > CD
- (c) AB < AD
- (d) None of the above

Answer: (a) AB = CD

Question 6.

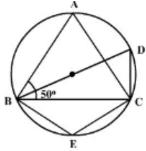
Segment of a circle is the region between an arc andof the circle.

- (a) perpendicular
- (b) radius
- (c) chord
- (d) secant

Answer: (c) chord

Question 7.

In the figure, triangle ABC is an isosceles triangle with AB = AC and measure of angle ABC = 50° . Then the measure of angle BDC and angle BEC will be



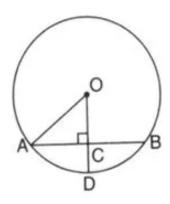
- (a) 60° , 100°
- (b) 80°, 100°
- (c) 50° , 100°
- (d) 40°, 120°

Answer: (b) 80°, 100° Ouestion 8. The region between chord and either of the arc is called (a) a sector (b) a semicircle (c) a segment (d) a quarter circle Answer: (c) a segment Ouestion 9. The region between an arc and the two radii joining the centre of the end points of the arc is called a: (a) Segment (b) Semi circle (c) Minor arc (d) Sector Answer: (d) Sector Question 10. If a line intersects two concentric circles with centre O at A, B, C and D, then: (a) AB = CD(b) AB > CD(c) AB < CD(d) None of the above Answer: (a) AB = CDQuestion 11. A chord of a circle which is twice as long as its radius is a of the circle (a) Diameter (b) perpendicular (c) arc (d) secant

Answer: (a) Diameter

Question 12. A regular octagon is inscribed in a circle. The angle that each side of the octagon subtends at the centre is
(a) 45°
(b) 75°
(c) 90°
(d) 60°
Answer: (a) 45°
0 1 12
Question 13.
Equal of the congruent circles subtend equal angles at the centers. (a) Segments
(a) Segments (b) Radii
(c) Arcs
(d) Chords
Answer: (d) Chords
Question 14.
The angle subtended by the diameter of a semi-circle is:
(a) 90
(b) 45
(c) 180
(d) 60
Answer: (c) 180
Ougstion 15
Question 15. The degree measure of a semicircle is
(a) 0°
(b) 90°
(c) 360°
(d) 180°
Answer: (d) 180°
Question 16.

In the given figure if OA = 5 cm, AB = 8 cm and OD is perpendicular to AB, then CD is equal to



- (a) 4 cm
- (b) 3 cm
- (c) 5 cm
- (d) 2 cm

Answer:

Question 17.

AB is a chord of a circle with radius 'r'. If P is any point on the circle such that $\angle APB$ is a right angle, then AB is equal to

- (a) 3r
- (b) r
- (c) 2r
- (d) r^2

Answer: (c) 2r

Question 18.

In a circle with center O and a chord BC, the point D lies on the same side BC as O. If \angle BOC = 50°, then \angle BDC =

- (a) 25°
- (b) 100°
- (c) 75°
- (d) 150°

Answer: (a) 25°