

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	A chord passing through the focus of a parabola is called a _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
2	The equ. of directrix of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
3	A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is:	A. 4 cm B. 3cm C. 2.5cm D. 3.4cm
4	Point p (-5, 6) lies the circle $x^2 + y^2 + 4x - 6y - 12 = 0$	A. Outside B. Inside C. On D. None of these
5	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is $c =$ _____:	
6	The directrix of the parabola $x^2 = 4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
7	The two parts of a right circular cones are called:	A. Nappes B. Apex of the cone C. Generator D. Vertex
8	If the focus lies on the x-axis with coordinates F(a, 0) and directrix of the parabola is $x = -a$ then the equation of parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $x^2 = -4ay$ D. $y^2 = -4ax$
9	The conic is a parabola, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
10	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
11	The focus of the parabola $x^2 = 4ay$ is:	A. (0, a) B. (-a, 0) C. (0, -a) D. (a, 0)
12	If equation of circle is $(x - h)^2 + (y - k)^2 = r^2$, then center of a circle:	A. (-h, -k) B. (h, k) C. (-h, k) D. (h, -k)
13	The axis of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
14	A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a:	A. Secant B. Diameter C. Chord D. Tangent
15	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
		A. Chord

- 16 A line segment joining two distinct points on a parabola is called a _____ of the parabola:
- B. Vertex
C. Focus
D. Directrix
-
- 17 The opening of the parabola $x^2 = 16y$ is to _____ of the x-axis:
- A. Left
B. Upward
C. Right
D. Downward
-
- 18 The axis of the parabola $y^2 = 4ax$ is:
- A. $x = 0$
B. $x = a$
C. $y = 0$
D. $y = a$
-
- 19 The length of the latus rectum of the parabola $y^2 = 4ax$ is:
- A. a
B. $4a$
C. $2a$
D. None of these
-
- 20 If a circle and a line intersect in two points, then the line is called:
- A. A chord
B. A secant
C. A diameter
D. None of these