

ECAT Pre General Science Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	The set of all points in the plane that are equally distant from a fixed point is called a	A. parabola B. ellipse C. hyperbola D. circle
4	Apollonius was a	A. rocket B. Muslim scientist C. Greek mathematicians D. method of finding conics
5	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a circle C. a parabola D. a hyperbola
6	The area of the circle centred at (1, 2) and passing through (4, 6) is	
7	Question Image	B. $a = b, h = 0$ C. $f = g, h = 0$ D. $h = h, c = 0$
8	If three non-collinear points through which a circle passes are known, then we can find the	A. variables x and y B. value of x and c C. three constant f, g and c D. inverse of the circle
9	Question Image	A. 1 B. 2 C. 0 D. None of these
10	A second degree equation in which coefficients of x^2 and y^2 are equal and there is no product term xy represents	A. a parabola B. a circle C. an ellipse D. a pair of lines
11	The generators of a cone are also called	A. rulings B. apex C. nappes D. ellipse
12	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a circle C. a parabola D. a hyperbola
13	Question Image	
14	Question Image	
15	A cone is generated by all lines through a fixed point and the circumference of	A. a circle B. an ellipse C. a hyperbola D. none of these
16	Question Image	A. Three Independent Variables B. Two independent constant C. Three independent parameters D. Three independent constant
17	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
18	The equation of the circle with centre (3, 4) and radius 5 is	A. $(x-3)^2 + (y+5)^2 = 7^2$ B. $(x-3)^2 + (y+5)^2 = 7^2$ C. $(x-3)^2 + (y+5)^2 = 5^2$ D. $(x-3)^2 + (y+5)^2 = 25$

18	The equation of the circle whose centre is $(-3, 5)$ and having radius r is	<p>C. $(x+3)^2 + (y-5)^2 = r^2$</p> <p>D. $x^2 + y^2 + 6x - 10y - 15 = 0$</p>
19	Question Image	
20	If a plane passes through the vertex of the cone, then the intersection is	<p>A. an ellipse</p> <p>B. a parabola</p> <p>C. a hyperbola</p> <p>D. a point circle</p>