

ECAT Pre General Science Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	The equation of the circle with centre at (5, -2) and radius 4 is	
2	Question Image	
3	The generators of a cone are also called	A. rulings B. apex C. nappes D. ellipse
4	Question Image	A. Three Independent Variables B. Two independent constant C. Three independent parameters D. Three independent constant
5	Question Image	
6	Question Image	
7	Question Image	D. None of these
8	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
9	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve of intersection is	A. a circle B. an ellipse C. a parabola D. a hyperbola
10	To study conics, Pappus used the method of	A. analytic geometry B. solid geometry C. Euclidean geometry D. none of these
11	Apollonius was a	A. rocket B. Muslim scientist C. Greek mathematicians D. method of finding conics
12	Question Image	
13	Question Image	A. 1 B. 2 C. 0 D. None of these
14	If a plane passes through the vertex of the cone, then the intersection is	A. an ellipse B. a parabola C. a hyperbola D. a point circle
15	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
16	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
17	If the centre of the circle is the origin, then equation of the circle is	A. $x^2 + y^2 = 0$ B. $2gx + 2fy - c = 0$ C. $x^2 + y^2 = r^2$ D. $gx + fy - c/2 = 0$
18	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

19	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
20	The area of the circle centred at (1, 2) and passing through (4, 6) is	