

## ECAT Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
2	Question Image	B. $a = b, h = 0$ C. $f = g, h = 0$ D. $h = h, c = 0$
3	Question Image	
4	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. $gx + fy - c/2 = 0$
5	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
6	The equation of the circle whose centre is (-3, 5) and having radius 7 is	A. $(x-3)^2 + (y+5)^2 = 7$ B. $(x-3)^2 + (y+5)^2 = 7$ C. $(x-3)^2 + (y-5)^2 = 7$ D. $x^2 + y^2 + 6x - 10y - 15 = 0$
7	Question Image	D. None of these
8	Apollonius was a	A. rocket B. Muslim scientist C. Greek mathematicians D. method of finding conics
9	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
10	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
11	Question Image	
12	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is	A. an ellipse B. a circle C. a hyperbola D. a parabola
13	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
14	The vertex of the cone is also called	A. nappes B. axis C. rulings D. apex
15	Question Image	
16	Question Image	
17	Question Image	A. Three Independent Variables B. Two independent constant C. Three independent parameters D. Three independent constant

18 Question Image

19 The equation of the circle with centre at (5, -2) and radius 4 is

20 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