

## ECAT (Pre-Eng) Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	Question Image	
2	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. $gx + fy - c/2 = 0$
3	Apollonius was a	A. rocket B. Muslim scientist C. Greek mathematicians D. method of finding conics
4	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
5	Question Image	
6	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
7	The equation: $x^2 + y^2 + 2gx + 2fy + c = 0$ , represents	A. pair of lines B. a circle C. a general second degree equation D. a hyperbola
8	Question Image	
9	Question Image	D. None of these
10	Question Image	
11	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
12	Question Image	B. $a = b, h = 0$ C. $f = g, h = 0$ D. $h = h, c = 0$
13	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
14	Question Image	
15	The equation of the circle with centre at (5, -2) and radius 4 is	
16	The area of the circle centred at (1, 2) and passing through (4, 6) is	
17	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
18	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. circle B. ellipse C. hyperbola D. parabola
19	Question Image	A. Three Independent Variables B. Two independent constant C. Three independent parameters D. Three independent constant
		A. 1

