

## ECAT Pre General Science Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	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
2	The generators of a cone are also called	A. rulings B. apex C. nappes D. ellipse
3	Question Image	
4	The vertex of the cone is also called	A. nappes B. axis C. rulings D. apex
5	Question Image	
6	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
7	To study conics, Pappus used the method of	A. analytic geometry B. solid geometry C. Euclidean geometry D. none of these
8	Question Image	D. None of these
9	The equation of the circle whose centre is (-3, 5) and having radius 7 is	A. (x-3) <sup>2</sup> + (y+5) <sup>2</sup> = 7 <sup>2</sup> B. (x-3) <sup>2</sup> + (y+5) <sup>2</sup> = 7 <sup>2</sup> C. (x-3) <sup>2</sup> + (y-5) <sup>2</sup> = 7 <sup>2</sup> D. x <sup>2</sup> +y <sup>2</sup> +6x-10y-15=0
10	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
11	Question Image	
12	If the centre of the circle is the origin, then equation of the cirlce is	A. x <sup>2</sup> + y <sup>2</sup> = (B. 2gx + 2fy - c = 0 C. x <sup>2</sup> + y <sup>2</sup> = r <sup>2</sup> D. gx + fy - c/2 = 0
13	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
14	The area of the circle centred at (1, 2) and passing through (4, 6) is	
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	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
17	Question Image	
		A. a circle

If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve of intersection is	B. an ellipse C. a parabola D. a hyperbola
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
The equation of the circle with centre at (5, -2) and radius 4 is	
	only, the curve of intersection is  If a plane passes through the vertex of the cone, then the intersection is