ECAT (Pre-Eng) Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	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
2	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
3	Apollonius was a	A. rocket B. Muslim scientist C. Greek mathematicians D. method of finding conics
4	Question Image	
5	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
6	If the centre of the circle is the origin, then equation of the cirlce is	A. x²+ y²= 0 B. 2gx + 2fy - c = 0 C. x²+ y²= r² D. gx + fy - c/2 = 0
7	The equation of the circle with centre at (5, -2) and radius 4 is	
8	The equation of the circle whose centre is (-3, 5) and having radius 7 is	A. (x-3)²+ (y+5)²= 7² B. (x-3)²+ (y+5)²= 7² C. (x-3)²+ (y-5)²= 7² D. x²+y²+6x-10y-15=0
9	Question Image	
10	Question Image	
11	To study conics, Pappus used the method of	A. analytic geometry B. solid geometry C. Euclidean geometry D. none of these
12	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
13	The vertex of the cone is also called	A. nappes B. axis C. rulings D. apex
14	Question Image	
15	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
16	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
17	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
18	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
19	Question Image	A. 1 B. 2 C. 0 D. None of these
20	Question Image	B. a = b , h = 0 C. f = g, h = 0 D. h = h, c = 0