ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	The radius of the circle $(x - 1)^2 + (y + 3)^2 = 61$ is	A. 8 B. 4 C. 64 D. None of these
2	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
3	The straight lines represented by the equation $ax2+ 2hxy +by2 =0$ intersects at	A. (1,1) B. (0,1) C. (1,0) D. (0,0)
4	0 (zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
5	The length of perpendicular from (3,1) to $4x +3y +20 =0$ is	A. 6 B. 7 C. 3 D. 8
6	Question Image	
7	π is the ration of	A. Area of a circle to its diameter B. Area of a circle to its radius C. Circumference of a circle to its diameter D. Circumference of circle to its radius
8	Question Image	
9	If one root of the equation $ix^2 - 2(i + 1) x +(2 - i) = 0$ is 2 - i, then the other root is	A. -i B. 2 + i C. i D. 2 - i
10	Question Image	
11	Graph of the question $x^2 + y^2 = 4$ is	A. A circle B. An ellipse C. A parabola D. A square
12	The point on $y^2 = 4ax$ nearest to the focus has its abciassae equal to	A. -a B. a C. a/2 D. 0
13	Question Image	
14	Question Image	D. none of these
15	Period of cosec x is _____	
16	Question Image	A. 0 B. 1
17	If the lines 2x-3y-1=0,3x-y-5=0 and 3x+py+8=0 meet at a unique point then	A. p = -14 B. p = -1 C. p =0 D. p=12
18	Question Image	A. cos 3x + c B. - cos 3x + c
19	The value of n, when ${}^nP_2 = 20$ is	A. 3 B. 4 C. 6

		D. 5
20	Question Image	A. A rational number B. A natural number C. An irrational number D. An integer