

## ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	D. none of these
2	There is no integer n for which 3n is	A. Even B. Prime C. Odd D. Real
3	The term involving x4 the expansion (3-2x)7 is	A. 217 x4 B. 15120x4 C. 313x4 D25x4
4	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19 D. √(2&7)
5	The number of significant numbers which can be formed by using any number of the digits 0, 1, 2, 3, 4 but using each not more than once in each number is	A. 260 B. 356 C. 410 D. 96
6	The transpose of a column matrix is a	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix
7	The equation of the circle wit (-1, 1) and radius 2 is	
8	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
9	Question Image	A. A B. B C. A' D. None of these
10	In (x + iy) x is the known as	A. Imaginary part of complex number B. Real part of complex number C. Complex number D. None of above
11	Question Image	
12	Question Image	
13	Question Image	
14	Question Image	
15	A joint equation of the lines through the origin and perpendicular to the lines ax2 +2hxy +by2 =0 is indentical is ax2 +2hxy +by2 =0 if	A. h2 = ab B. a + b = 0 C. a = b D. a ≠ b E. a = b = 0
16	Question Image	A. X = 100 sin <span style='color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);'><i>&gt;0</i>&gt;<i>&gt;i&gt;&gt;<i>&gt;0</i>&gt;<i>&gt;i&gt;&gt;<i>&gt;0</i>&gt;</i>&gt;</i></span>

		rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);"> <i>&gt;0. None of these</i>
17	Question Image	
18	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers $1,2,3,10$ is	A. 1/5 B. 1/4 C. 1/3 D. 1/2
19	Power set of X i.e P(X) under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
20	Question Image	