

## ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	The symbol of irrational is	A. W B. N C. Q D. Q'
2	QUQ'	
3	Question Image <input type="text"/>	A. Set of whole number B. Rational Numbers C. Complex numbers D. Whole numbers
4	The set {1, 2, 3, 4, ...} is called	A. Set of Natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
5	Geometrically, the modulus of a complex number represents its distance from the	A. Point (1, 0) B. Point (0, 1) C. Point (1, 1) D. Point (0, 0)
6	Question Image <input type="text"/>	
7	The multiplicative inverse of $1 - 2i$ is	
8	The square root of $2i - 20i$ is	A. $+(5 - 2i)$ B. $+(5 + 2i)$ C. $(5 - 2i)$ D. None of these
9	The value of x, and y, when $(x + iy)^2 = 5 + 4i$	A. $X = 2, y = 1$ B. $X = -2, y = 1$ C. $X = 2, y = -1$ D. $X = 2, y = 2$
10	Question Image <input type="text"/>	A. $-3 - 2i$ B. $3 + 2i$ C. $1 + 2i$ D. $1 - 2i$
11	What is the conjugate of $-7 - 2i$ ?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. None of these
12	Question Image <input type="text"/>	
13	The equation $ x + 4  = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
14	The solution set of the equation $ 3x + 2  = 5$ is	
15	Question Image <input type="text"/>	A. 15 B. $15i$ C. $-15i$ D. $-15$
16	If $Z_1 = 1 + i, Z_2 = 2 + 3i$ , then $ Z_2 - Z_1  = ?$	
17	If $Z = (1, 2)$ , then $Z^{-1} = ?$	A. (0.2, 0.4) B. (-0.2, 0.4) C. (0.2, -0.4) D. (-0.2, -0.4)
18	The value of x, and y, when $(x + iy)^2 = 5 + 4i$	A. $X = 2, y = -1$ B. $X = -2, y = 1$ C. $X = 2, y = -1$ D. $X = 2, y = 2$
		A. A positive integer

19	<input type="text" value="Question Image"/>	B. A negative integer C. A natural number D. An irrational number
20	Every prime number is also	A. Rational number B. Even number C. Irrational number D. Multiple of two numbers
21	$\frac{3}{2}$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
22	<input type="text" value="Question Image"/>	A. A rational number B. A irrational number C. An even integer D. A factor of 36
23	6 is	A. A prime integer B. An irrational number C. A rational number D. An odd integer
24	Zero is	A. An irrational number B. A rational number C. A negative integer D. A positive number
25	If the angle between two vectors with magnitude 2 and 15 is $30^\circ$ then their scalar product is	B. 15 C. 30
26	<input type="text" value="Question Image"/>	A. 12 B. 6 C. 8 D. none of these
27	<input type="text" value="Question Image"/>	
28	<input type="text" value="Question Image"/>	
29	<input type="text" value="Question Image"/>	
30	<input type="text" value="Question Image"/>	