

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	Question Image	A. Additive property of inequality B. Commutative property C. Additive inverse D. Additive identity
2	Question Image	
3	If $z = (x,y)$, then $\bar{z} =$	A. $(-x,y)$ B. $(x,-y)$ C. $(-x, -y)$ D. None of these
4	A subset of set of complex number whose elements are of the form $(a,0)$ is called	A. Real number B. Complex number C. Rational number D. Irrational number
5	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
6	The equation $ x+4 = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
7	$(a^{-1})^{-1} =$	A. a^{-1} B. a C. $-a$ D. None of above
8	If $z=(x,y)$ then z has no multiplicative inverse when	A. $x \neq 0, y = 0$ B. $x = 0, y = 0$ C. $x = 0, y \neq 0$ 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	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer
11	Question Image	A. 0 B. 1 C. -1 D. 2
12	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
13	The square root of $2i - 20i$ is	A. $\pm(5 - 2i)$ B. $\pm(5+ 2i)$ C. $(5 - 2i)$ D. None of these
14	$a.a^{-1} = a^{-1}.a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
15	Question Image	
16	The value of x and y when $(x + iy)^2 = 5 + 4i$:	A. $X = 2, y = -1$ B. $X = -2, y = 1$

16 The value of x , and y , when $(x + iy)^{-1} = 3 + 4i$

- C. $X = 2, y = -1$
- D. $X = 2, y = 2$

17 Question Image

18 If $z_1 = (a,b)$, $z_2=(c,d)$, then $z_1 z_2 =$ -----

- A. (ac,bd)
- B. $(ac+bd, ad-bc)$
- C. $(ac-bd, ad+bc)$
- D. $(ac-bd, ad-bc)$

19 2.333...is a

- A. Irrational no
- B. Complex no
- C. Rational no
- D. None of these

20 Question Image