

ECAT (Pre-Eng) Mathematics For Chapter 1 Number System

Sr	Questions	Answers Choice
1	The $\sqrt{\quad}$ is used for the	A. Positive square root B. Negative square root C. +ve and -ve square root D. Whole number
2	Question Image <input style="width: 100%;" type="text"/>	A. -3 -2i B. 3 +2i C. 1 + 2i D. 1 - 2i
3	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
4	The set of rationals numbers between 0 and 1 is	A. Finite B. Null set C. Infinite D. None of these
5	$\sqrt{25}$ is a number	A. Rational B. Irrational C. Natural D. Odd
6	Question Image <input style="width: 100%;" type="text"/>	A. N B. r C. 2r D. <math>\pi</math>
7	Question Image <input style="width: 100%;" type="text"/>	
8	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
9	Question Image <input style="width: 100%;" type="text"/>	D. None of these
10	The negative square root of 9 can be written as:	A. $-\sqrt{9}$ B. $\sqrt{9}$ C. $-\sqrt{18}$ D. $-\sqrt{18}$
11	Question Image <input style="width: 100%;" type="text"/>	
12	Question Image <input style="width: 100%;" type="text"/>	B. 1 C. -1
13	Question Image <input style="width: 100%;" type="text"/>	A. A rational number B. A natural number C. An irrational number D. An integer
14	$\forall a, b, c \in \mathbb{R}$ and $c > 0$, then	A. $a < b \Rightarrow ac < bc$ B. $a < b \Rightarrow ac > bc$ C. $a < b \Rightarrow ac > bc$ D. None of these
15	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
16	If $a > b$ or $a < b$ then $a = b$ is a	A. Additive property B. Transitive property C. Trichotomy property of inequality

17	$\forall x, y \in \mathbb{R}$, either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
18	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)
19	$\forall a, b, c \in \mathbb{R} \quad ac = bc \Rightarrow a = b, c \neq 0$ is a	A. Symmetric property B. Cancellation property w.r.t multiplication C. Reflexive property D. Transitive property
20	$(7,9) + (3,-5) =$	A. (4,4) B. (10,4) C. (9,-5) D. (7,3)