ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	If $Z_1 = 1 + i$, $Z_2 = 2+3i$, then $|Z_1 - Z_2| = ?$	
2	Question Image	A. Principle of equality of Fractions B. Rule for product of fraction C. Golden rule of fraction D. Rule of quotient of Fraction
3	Question Image	A. 1 B. -i C. i D. 0
4	The product of complex numbers (a,b) and (c,d) is	A. (ac, bd) B. (ac-bd, ad+bc) C. (ab,cd) D. (ac+bd,ad-bc)
5	$Q U Q$, =	A. N B. R C. W D. Z
6	Question Image	
7	The conjugate of $\sqrt{5}\,i$ is	A. $\sqrt{5}$ B. $-\sqrt{5}\,i$ C. i D. 5i
8	Question Image	
9	The additive inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
10	$\forall x,y,z \in R$ and z 0,then	A. x > y ⇒ xz > yz B. x<y ⇒ xz < yz C. x < y ⇒ xz > yz D. None of these
11	$\forall x,y \in R$ and x> 0 , y>0, if x > y	D. None of these
12	Question Image	
13	$i^{101} =$	A. i B. i^2 C. -i D. -1
14	Every irrational number is	A. A real number B. A prime number C. A natural number D. An integer
15	$\sqrt{11}$ is	A. an irrational number B. Rational number C. odd number D. Negative number
16	Name the property used in 4.1 + (-4.1) = 0	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
17	$\forall a,b, c \, \varepsilon \, R, a +c = b + c = > a = b$	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
18	Question Image	A. Set of whole number B. Rational Numbers C.

		C. Complex numbers
		D. Whole numbers

19	Question Image	A. 1 B. 3 C. 2-i D. -1

20	(√3+√5)+√7 = √3 +(√5 +√7) property used in above is	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t to adition