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

Sr	Questions	Answers Choice
1	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)
2	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating
3	$a.a^{-1} = a^{-1}.a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
4	The set of rationals numbers between 0 and I is	A. Finite B. Null set C. Infinite D. None of these
5	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
6	4/√49 is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
7	Question Image	
8	(a+bi) - (c+di)=	A. (a+b) = (c+d) B. (a+c) + i(b+d) C. (a - c) + (c- d)i D. (a - c)+ (b - d)i
9	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
10	Which element is the additive inverse of (a, b) in Complex numbers?	A. (a, 0) B. (0, b) C. (a, b) D. (-a, -b)
11	The set {0,-1} hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
12	Question Image	
13	∀x,y,z ∈ R and z 0,then	A. x > y ⇒ xz > yz B. x<y ⇒ xz < yz C. x < y ⇒ xz > yz D. None of these
14	The order axioms are satisfied by set of	A. C B. C and R C. R D. None of these
15	The symbol of irrational is	A. W B. N C. Q D. Q'
16	∀ z ∈ C, multipliucative is	A. (1,1) B. (1,0) C. (0,1) D. None of these

17	The identity element with respect to subtraction is	A. 0 B. 1 C. -1 D. Does not exist
18	(a-1)-1 =	A. a-1 B. a C. -a D. None of above
19	Name the property used in 4.1 + (-4.1) = 0	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
20	Question Image	A. a = a B. a < a C. a > a D. a²= a