

## ECAT Mathematics Chapter 1 Number System MCQ's Test

Sr	Questions	Answers Choice
1	Question Image	
2	If a and b are real numbers then a+b is also real number this law is called	A. associative law of addition B. closure law of addition C. Distributive law of addition D. Commutative law of addition
3	$\forall a,b,c \in R,a +c = b + c = > a = b$	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
4	Question Image	A. A prime number B. An integer C. A whole number D. An irrational number
5	Associative law of multiplication	A. ab - ba B. a(bc) = (ab) c C. a(b + c) = ab +ac D. (a +b)c = ac + bc
6	(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
7	Question Image	
8	The multiplicative inverse of (a,b) is	
9	$\forall x, y \in R$ , either x = y or x > y or x < y is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
10	Question Image	
11	If z <sub>1</sub> = (a,b), z <sub>2</sub> =(c,d), then z <sub>1</sub> z <sub>2</sub> =	A. (ac,bd) B. (ac+bd, ad-bc) C. (ac-bd, ad+bc) D. (ac-bd, ad-bc)
12	If in a set of real no a is multiplicative identity then	A. a,a = a <sup>2</sup> B. a,a = 1 C. a,a = 0 D. None of these
13	$\forall x,y \in R$ and $x < 0$ , $y < 0$ , which one is true	A. xy < o B. xy = o C. xy > o D. None of these
14	In R the left cancellation property w.r.t addition is	
15	(a +bi) -c (c +di) =	A. $(a +b) = (c +d)$ B. $(a +c) + i(b +d)$ C. $(a -c) + (c -d) < i < i >$ D. $(a -c) + (b -d) $ hbsp; $< i > i < / i >$
16	Multiplicative inverse of "1" is	A. 0 B. ±1 C. 1 D. {0,1}
17	Question Image	
18	The multiplicative inverse of 2/3 is	A. 3/2 B2/3 C3/2 D. 1
		A. 1/9

19 If 0 = R, thenthe additive inverse of a is

B. <sup>1/-9</sup>
C. a
D. -a

20 Question Image

A. x
C. y