ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	$i^3 =$	A. -1 B. i C. -i D. 1
2	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
3	Question Image	A. 1 B. 3 C. 2-i D. -1
4	Question Image	A. $(a + b)c = ac + bc$ B. $a + b = b + a$ C. $(a + b) + c = a + (b + c)$ D. $a(b +c) = ab + ac$
5	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule for fractions D. Rule for quotient of fractions
6	If in a set of real no a is multiplicative identity then	A. $a,a = a^2$ B. $a,a = 1$ C. $a,a = 0$ D. None of these
7	$i^2 =$	A. 1 B. 2 C. -1 D. 0
8	Question Image	A.
9	14 is not a	A. Prime number B. Whole number C. Even number D. Real number
10	$i^{101} =$	A. i B. i^2 C. -i D. -1
11	Question Image	A. additive property B. multiplicative property C. additive inverse D. additive identity
12	There is no element common in	A. N and W B. E and W C. N and O D. Q and Q'
13	The solution set of the equation |3x + 2| = 5 is	
14	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
15	Question Image	A. Associative law of multiplication B. Commutative law of addition C. Commutative law of multiplication D. Associative law of addition
16	Question Image	A. A positive integer B. A negative integer C. A natural number

17	If a set S contains n elements then P (S) has .... number of elements	A. 2^n B. 2^{n2} C. $2.n$ D. n^2
18	If $z_1 = 1 + 2i$, $z_2 = 3 + 4i$ then	A. $z_1 > z_2$ B. $z_1 = z_2$ C. $z_1 < z_2$ D. None of these
19	The value of i^{4n+1}	A. 1 B. -1 C. i D. i^2
20	Question Image	A. 0 B. 1 C. -1 D. None of these