

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

Sr	Questions	Answers Choice
1	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
2	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
3	The set of rational number is represented by	A. W B. R C. Q' D. <div>Q</div><div> </div>
4	$(a, 0) \times (c, 0) =$	A. $(0, ac)$ B. $(ac, 0)$ C. $(0, 0)$ D. $(a, c)$
5	The sum of complex number $(a, b)$ and $(c, d)$ is	
6	$\sqrt{11}$ is	A. an irrational number B. Rational number C. odd number D. Negative number
7	Question Image	
8	$\pi$ is _____	A. A complex number B. A rational number C. A natural number D. An irrational number
9	$\ln(x+iy)$ y is called as	A. Imaginary part B. Complex number C. Real part D. None of above
10	There is no element common in	A. N and W B. E and W C. N and O D. Q and Q'
11	Zero is	A. An irrational number B. A rational number C. A negative integer D. A positive number
12	Question Image	
13	$\sqrt{x} =$ _____ if x is a prime number	A. Rational no B. Natural no C. Irrational no D. Complex no
14	The product of complex numbers $(a, b)$ and $(c, d)$ is	A. $(ac, bd)$ B. $(ac-bd, ad+bc)$ C. $(ab, cd)$ D. $(ac+bd, ad-bc)$
15	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
16	The multiplicative inverse of $-3i$ is	A. $3i$ B. $-3i$ C. $-1/3i$ D. $1/3 i$
17	Question Image	A. Commutative property of addition B. Closure property of addition C. Additive inverse

18 The equation  $|x + 4| = x$  has solution

- A.  $x = -2$
- B.  $x = 2$
- C.  $x = -4$
- D.  $x = 4$

19 Question Image

20 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