

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	$(a,0) \times (c,0) =$	A. (0,ac) B. (ac,0) C. (0,0) D. (a,c)
2	Question Image	A. 15 B. 15 i C. -15 i D. -15
3	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule of fractions D. Rule for quotient of fractions
4	π is _____	A. A complex number B. A rational number C. A natural number D. An irrational number
5	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
6	$\sqrt{25}$ is a number	A. Rational B. Irrational C. Natural D. Odd
7	$i^2 =$	A. 1 B. 2 C. -1 D. 0
8	If in a set of real no a is additive identity then	A. $a+a = 2a$ B. $a+a = 1$ C. $a+a = 0$ D. None of these
9	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of above
10	14 is not a	A. Prime number B. Whole number C. Even number D. Real number
11	Question Image	D. None of these
12	In R the number of identity elements w.r.t.'.' is	A. One B. Two C. Three D. Four
13	If $z_1 = (a,b)$, $z_2=(c,d)$, then $z_1 z_2 =$ -----	A. (ac,bd) B. (ac+bd, ad-bc) C. (ac-bd , ad+bc) D. (ac-bd , ad-bc)
14	Every prime number is also	A. Rational number B. Even number C. Irrational number D. Multiple of two numbers
15	$i^{101} =$	A. i B. $i ²$ C. -i D. -1
16	Question Image	A. (0 0)

17 $(a, b) + (-a, -b) =$

- A. $(-a, -b)$
- B. (a, b)
- C. $(-a, -b)$
- D. $(1, 1)$

18 Zero is

- A. An irrational number
- B. A rational number
- C. A negative integer
- D. A positive number

19 Additive inverse of $-a - b$ is

- A. a
- B. $-a + b$
- C. $a - b$
- D. $a + b$

20 The symbol of irrational is

- A. W
- B. N
- C. Q
- D. \mathbb{Q}