

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

Sr	Questions	Answers Choice
1	The property used in $-3 < -2 \Rightarrow 0 < 1$	A. Commutative property B. Additive property of inequality C. Additive inverse D. Additive identity
2	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of above
3	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
4	Question Image	A. Set of whole number B. Rational Numbers C. Complex numbers D. Whole numbers
5	The equation $ x+4  = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
6	Question Image	A. 0 B. 1 C. -1 D. 2
7	Question Image	A. An odd number B. An even number C. A natural number D. A rational number
8	$3/4$ is _____	A. A positive integer B. A negative integer C. A natural number D. An irrational number
9	Question Image	A. (4,4) B. (10,4) C. (9,-5) D. (7,3)
10	$(7,9) + (3,-5) =$	A. $36 + (-32)i$ B. $-36 + 32i$ C. $6 + (-11)i$ D. $0, +(-12)i$
11	If $z_1 = 2 + 6i$ and $z_2 = 3 + 7i$ , then which expression defines the product of $z_1$ and $z_2$ ?	A. 1 B. 2 C. $1/2$ D. $<math>0</math>$
12	The additive identity of real number is	A. -6 + i B. 6 + i C. -6 - i D. 6 - i
13	What is the conjugate of $-6 - i$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
14	$(a+bi) - (c+di) =$	A. -4 B. $-1/4$ C. $1/4$ D. 1
15	The multiplicative inverse of 4 is	A. 0 B. 1 C. -a
16	In R, the additive inverse of a is	A. 0 B. 1 C. -a

17 If  $z_1 = \sqrt{-36}$ ,  $z_2 = \sqrt{-25}$ ,  $z_3 = \sqrt{-16}$  then

A. 15

B. 15i

C. -15i

D. -15

18 Question Image

- A. Symmetric property
- B. Cancellation property w.r.t. multiplication
- C. Reflexive property
- D. Transitive property

19 Question Image

- A. Rational
- B. Irrational
- C. Even
- D. Odd

20 The additive inverse of 0 is

- A. 1
- B. -1
- C. 0
- D. Does not exist