

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

Sr	Questions	Answers Choice
1	The value of x and y when $(x + iy)^2 = 5 - 4i$	A. $x = 2, y = -1$ B. $x = -2, y = 1$ C. $x = 2, y = -i$ D. $x = 2, y = 2$
2	π is _____	A. A complex number B. A rational number C. A natural number D. An irrational number
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t. to addition
4	$(a,b) + (-a,-b) =$	A. (0,0) B. (a,b) C. (-a,-b) D. (1,1)
5	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
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 <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. -i C. i D. 0
8	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
9	0.25 is _____	A. An irrational number B. A natural number C. A prime number D. A rational number
10	A non-terminating non_recurring decimal represents an	A. Irrational no B. Both a & c C. Rational no D. None of these
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. (x, y) B. (kx, y) C. (x, ky) D. (kx, ky)
13	In R the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
14	Which of the following sets has closure property w.r.t. addition	A. { 0 } B. { 1 } C. { 0, -1 } D. { 1, -1 }
15	i is equal	A. (1, 0) B. (0, 1) C. (1, 1) D. (0, 0)

16	Which element is the additive inverse of (a,b) in Complex numbers	A. $(a,0)$ B. $(0,b)$ C. (a,b) D. $(-a,-b)$
17	If $a > b$ or $a < b$ then $a = b$ is a	A. Additive property B. Transitive property C. Trichotomy property of inequality D. None of above
18	Question Image <input type="text"/>	
19	A prime number can be a factor of a square only if it occurs in the square at least	A. Once B. Thirce C. Twice D. None of these
20	The multiplicative inverse of x^{-1} is	A. x B. $a-2$ C. 0 D. 1
