

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

Sr	Questions	Answers Choice
1	Additive inverse of - a - b is	A. a Ba + b C. a - b D. a + b
2	Geometrically the modulus of a complex number represents its distance from the	A. Point (1,0) B. Point (0,1) C. Point (1,1) D. Point (0,0)
3	The identity element with respect to subtraction is	A. 0 B1 C. 0 and 1 D. None of thes
4	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 = -1 D. X = 2, y = 2
5	Question Image	
6	In set builder notation the set {0,1,2,100} can be written as	A. $\{x \mid x \in B\ \land x \le 100\}$ B. $\{x \mid x \in W\ \land x\ \< 101\}$ C. $\{x \mid x \in Z \land x\ \< 101\}$ D. The set of first 100 whole numbers
7	Question Image	A. are real no B. both are not real C. are imaginary no D. both are imaginary
8	The additive identity of real number is	A. 1 B. 2 C. 1/2 D. 0
9	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)
10	Question Image	A3 -2i B. 3 +2i C. 1 + 2i D. 1 - 2i
11	l is not	A. Real number B. Natural number C. Prime Number D. Whole Number
12	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
13	Question Image	A. Rational B. Irrational C. Natural D. Odd
14	The multiplicative inverse of 2/3 is	A. 3/2 B2/3 C3/2 D. 1
15	Question Image	
		A. A prime integer B. An irrational number

U	U IS	C. A rational number D. An odd integer
7	Question Image	
8	Question Image	
9	Which of the following has the same value as i ¹¹³ ?	A. i B1 Ci D. 1
0	What is the conjugate of -7 -2i ?	A7 + 2i B. 7 +2i C. 7 -2i D. √53