

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$2x + 3 < 0$ is.	A. Inequality B. Equality C. Identity D. None
2	Question Image	
3	If $n(A) = n$ then $n(P(A))$ is	A. $2n$ B. $n^{2/2}$ C. $n/2$ D. $2^{n/2}$
4	Name the property used in $4.1 + (-4.1) = 0$	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
5	The vertex of the graph of the quadratic function $f(x) = -x^2 + 6x + 1$, is	A. $(-3, 10)$ B. $(-3, -10)$ C. $(3, 10)$ D. $(3, -10)$
6	If $x < y$, $2x = A$, and $2y = B$, then	A. $A = B$ B. $A < B$ C. $A < x$ D. $B < y$
7	Question Image	A. $a-b=ab$ B. $ab=a$ C. $a+b=ab$
8	A function whose domain is a subset of natural numbers is called _____	A. Identity function B. Sequence C. Onto function D. Series
9	Out of 40 consecutive natural numbers, two are chosen at random. Probability that the sum of the numbers is odd, is	A. $14 / 29$ B. $20 / 39$ C. $1 / 2$ D. n
10	The function $f(x) = x $ is a/an _____ function	A. Even B. Odd C. Both even as well as odd D. Neither even nor odd
11	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
12	The 6th term of the sequence 7, 9, 12, 16, is	A. 27 B. 32 C. 20 D. 19
13	The set of integers is a subset of	A. The set of natural numbers B. The set of whole numbers C. The set of prime numbers D. The set of rational numbers
14	Question Image	A. 16 B. 256 C. 64 D. 1024
15	Question Image	
16	For a set A, $A \cup A^c =$ -----	A. A B. \emptyset C. A^c D. U

A. Forms a group w.r.t addition

17	The set $(\mathbb{Z}, +)$ forms a group	B. Forms a group w.r.t multiplication C. Non commutative group w.r.t multiplication D. Doesn't form a group
18	Period of $\sin 3x$ is _____	
19	Two quadratic equation in which xy term is missing and the coefficients of x^2 and y^2 are equal, give a linear equation by _____	A. Addition B. Subtraction C. Multiplication D. Division
20	Question Image 	