

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 5 C. -5 D. none
2	For each real number, there is a number which is its	A. Negative B. Possitive C. Opposite D. Similar
3	The first three terms in the expansion of $(1 + x)^{-1}$ are	A. $1 + x + x^{>2</sup>}$ B. $1 - x - x^{>2</sup>}$ C. $-1 - x + x^{>2</sup>}$ D. $1 - x + x^{>2</sup>}$
4	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
5	A number H is said to be the H.M. between a and b if a, H, b are in	A. A.P. B. G. P. C. H. P. D. None of these
6	The set of natural numbers is a subset of	A. {1, 2, 3, 100} B. The set of whole numbers C. {2, 4, 6, 8,} D. None of these
7	How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once?	A. 15 B. 24 C. 60 D. 120
8	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
9	Question Image	
10	Question Image	A. 0 B. 1 C. 1/2
11	Question Image	
12	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
13	If $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$ ($n > 2$), then a_5 is	A. 1 B. 0 C. -1 D. -2
14	$\sqrt{11}$ is	A. an irrational number B. Rational number C. odd number D. Negative number
15	If θ be angle between u, v and u, v determine the sides of a triangle then the third side opposite to angle θ has length	A. $ u+v $ B. $ u + v $ C. $ u-v $ D. $ u - v $
16	Question Image	
17	The sum if 1 3 5 7 9 up to 20 terms is	A. 400 B. 472

17 The sum of 1,3,5,7,9..... up to 20 terms is

- C. 563
- D. 264

18 Question Image

- A. injective as well as surjective
- B. both onto and into
- C. one - one and into
- D. only (1 - 1)

19 Question Image

20 If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is

- A. an ellipse
- B. a circle
- C. a parabola
- D. a hyperbola