

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	The first three terms in the expansion of $(1 + x)^{-1}$ are	A. $1 + x + x^2$ B. $1 - x - x^2$ C. $-1 - x + x^2$ D. $1 - x + x^2$
3	Question Image	
4	Question Image	A. 1 B. -1 C. 0 D. I
5	The total cost of 2 apples and 3 oranges is \$1.70, which of the following is true	A. The cost of one apple B. The cost of one orange C. Both have equal cost per item D. Cost of each single item can not be determined
6	If a set S contains "n" elements then P (S) has number of elements	A. 2^n B. 2^{2n} C. 2 . n D. n^2
7	Given X,Y are any two sets such that number of elements in X = 18, number of elements in set Y = 24, and number of elements in set $X \cup Y = 40$, then number of elements in set $X \cap Y =$	A. 3 B. 1 C. 2 D. 4
8	Matrices $A = [a_{ij}] 2 \times 3$ and $B = [b_{ij}] 3 \times 2$ are suitable for	A. BA B. A^2 C. AB D. B^2
9	Question Image	
10	$(a,0) \times (c,0) =$	A. (0,ac) B. (ac,0) C. (0,0) D. (a,c)
11	The set of the first elements of the ordered pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation In A
12	Question Image	
13	Riaz, Saba, Maria, Shehzad are to give speeches in a class. The teacher can arrange the order of their presentation in	A. 4 ways B. 12 ways C. 256 ways D. 24 ways
14	The square root of every incomplete square is an	A. Rational numbers B. Even numbers C. odd numbers D. Irrational numbers
15	If $u = xi + yj$, then $ u $	A. $x^2 + y^2$ B. $(x^2 + y^2)^2$ C. $x^2 - y^2$ D. $\sqrt{x^2 + y^2}$
16	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
17	Question Image	
18	$\sin h x =$ _____	

19

Question Image

- A. $y + 1 = Ae^{x^2}$
- B. $y + 1 = Axe^{x^2}$
- C. $xe^{x^2} = C$
- D. $y + xe^{x^2} = C$

20

Question Image

- A. Reflexive property
- B. Symmetric property
- C. Transitive property
- D. Additive property