

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Differentiate the expression $(x-1)(x+2)^2$ with respect to x gives	A. $2x(x+2)$ B. $2(x-1)(x+2)$ C. $2(x+1)$ D. $3x(x+2)$
2	The angle of elevation of the tops of two towers at the middle point of the line joining the foots of the tower are 60° and 30° respectively. The the ratio of the heghts of the tower is	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 3
3	A and B be two square matrices and if their inverse exist, the $(AB)^{-1} =$	A. $A^{-1}B^{-1}$ B. AB^{-1} C. $A^{-1}B$ D. $B^{-1}A^{-1}$
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. false B. true C. not valid D. undefine
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
6	The square roots of negative numbers is called	A. Real no B. Complex no C. Positive no D. Negative no
7	The expression $x^2 - x + 1$ has	A. One proper linear factor B. No proper linear factor C. Two proper linear factors D. None of these
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	$\frac{3}{2}$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
10	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
11	The function $f : X \rightarrow Y$ defined as $f(x) = \alpha \forall x \in X, \alpha \in Y$ is called	A. Constant function B. Polynomial function C. Identity function D. Linear function
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these
13	The logic in which every statement is regarded as true or false and no other possibility is called	A. Aristotelian login B. Inductive logic C. Non-Aristotelian logic D. None of these
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	The product of complex numbers (a,b) and (c,d) is	A. (ac, bd) B. $(ac-bd, ad+bc)$ C. (ab, cd) D. $(ac+bd, ad-bc)$
16	An open sentences formed by using the sign of equality '=' is called _____	A. An identity B. An equation C. A polynomial D. None of these
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Singleton set B. A set with two points C. Empty set D. ...

D. None of these

18

Question Image

19

$x^3 + 2x^2 - 3x + 5$ is _____

- A. An equation
- B. A polynomial
- C. Proper rational fractions
- D. Improper rational fractions

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A die is thrown 100 times. If getting an odd number is considered a success, the variance of the number of successes is

- A. 50
- B. 25
- C. 10
- D. 100