

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	
2	<input type="text" value="Question Image"/>	
3	Domain of tangent function is	
4	The only function which is both even and odd is	A. $f(x) = \alpha$ B. $f(x) = x$ C. $f(x) = 0$ D. Both A & B
5	An equation which hold good for all values of the variables is called	A. Identity B. fraction C. mixed form D. Partial equation
6	The middle term(s) of $(a+x)^{11}$ is	A. 6th term B. 6th or 7th C. 7th term D. 6th and 7th
7	$3/2$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
8	$\forall x, y, z \in \mathbb{R}$ and $z \neq 0$, then	A. $x > y \Rightarrow xz > yz$ B. $x < y \Rightarrow xz < yz$ C. $x < y \Rightarrow xz > yz$ D. None of these
9	<input type="text" value="Question Image"/>	A. 5 B. 20 C. 9 D. 4
10	If $2x^{1/3} + 2x^{-1/3} = 5$, then x is equal to	A. 1 or -1 B. 2 or 1/2 C. 8 or 1/8 D. 4 or 1/4
11	$\sqrt{23}$ is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
12	<input type="text" value="Question Image"/>	D. all are correct
13	<input type="text" value="Question Image"/>	
14	Period of Cotangent function is	A. π B. $-\pi$ C. 0 D. $-\pi$
15	Graph of the question $x^2 + y^2 = 4$ is	A. A circle B. An ellipse C. A parabola D. A square
16	The domain the function : $f(x) = x^2$ is given by	A. \mathbb{R} B. Set of all non-negative Real numbers C. $\mathbb{R}^{>-1}$ D. None of these
17	<input type="text" value="Question Image"/>	
18	Let S_n denote the sum of the first n terms of an A.P. If $S_{2n} = 3 S_n$; S_n is equal to	A. 4 B. 6 C. 8 D. 10

A. $a_{ij} = 0$ for all $i \leq j$

19 A square matrix $A = [a_{ij}]$ is lower triangular matrix when:

- B. $b_{ij} = 0$
- C. $c_{ij} = 0$
- D. $d_{ij} = 0$

20 $3x + 4 > 0$ is

- A. equation
- B. identity
- C. inequality
- D. none of these