

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	10 is a even number or 0 is a natural number, then truth value of this disjunction is	A. False B. True C. Not discussed D. negation of first
2	The 6th term of the sequence 7,9,12,16.....is	A. 27 B. 32 C. 20 D. 19
3	Product of any n consecutive positive integers is divisible by	A. n B. \sqrt{n} C. n! D. None
4	A square matrix A = [aij] is lower triangular matrix when:	A. $a_{ij} = 0$ for all $i \leq j$ B. $b_{ij} = 0$ C. $c_{ij} = 0$ D. $d_{ij} = 0$
5	In R, the multiplicative identity is	A. 0 B. 1 C. -1 D. None
6	What is the period of $\cos 6x = ?$	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $1 + \tan^2 x + c$ B. $\tan x + c$ C. $-\tan x + c$ D. $\cot x + c$
9	The sum of n terms of a series is denoted by	A. d B. n C. S_n D. a_n
10	$f(x) = ax + b$ will be an identity function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
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"/>	A. 30° B. 60° C. 45° D. None of these
13	Axes remain parallel to the old axes, in:	A. Translating of axes B. rotation of axes C. Translation and rotation of axes D. None of these
14	Three points whose position vector a,b,c are collinear	A. $axb + bxc + cxa = 0$ B. $a, b + b, c + c, a = 0$ C. $a, a \times c = 0$ D. $a + b + c = 0$
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	C. 0 D. 1
16	Which of the following diagrams represent into function?	
17	The distance from the point P(6,-1) to the line $6x - 4x + 9 = 0$ is:	A. 5/7 B. $\sqrt{52}/7$ C. 2/48 D. $49/\sqrt{52}$

18 Which of the following statement, is true

- A. Lahore is in Punjab and $5 > 7$
- B. Lahore is the capital of Pakistan and $3 < 23$
- C. Lahore is capital of Sindh and $2 + 2 = 7$
- D. Lahore is the capital of Sindh or $2 + 2 = 4$

19 120° degrees are equal to how many radians?

20 Question Image