

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sin h x$ B. $\cos h x$ C. $\sec h x$ D. $\operatorname{cosec} h x$
2	The function discontinuous at $x = 0$ is (I) $\tan x$ (II) $\cot x$ (III) $\sec x$ (iv) $\operatorname{cosec} x$	A. I & III B. I & IV C. II & IV D. II & III
3	for $n \in \mathbb{N}$, $3^{2n} + 7$ is divisible by	A. 7 B. 8 C. 9 D. 10
4	If $3x^4 + 4x^3 + x - 5$ is divided by $x + 1$, then the remainder is	A. 0 B. 7 C. -7 D. 5
5	If n is any positive integer then $n! > n^2$ for	
6	The multiplicative inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
7	In a school, there are 150 students. Out of these 80 students enrolled for mathematics class, 50 enrolled for English class, and 60 enrolled for Physics class. The students enrolled for English cannot any other class, but the students of mathematics and Physics can take two courses at a time. Find the number of students who have taken both physics and mathematics	A. 40 B. 30 C. 50 D. 20
8	The area enclosed between the graph $y = x^2 - 4x$ and the x - axis is:	A. $20/3$ B. $41/3$ C. $32/3$ D. $25/3$
9	The set $\{ \{a,b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
10	There may be _____ feasible solution in the feasible region	A. Infinite B. Finite C. Defined D. None of above
11	If no two elements of ordered pairs of a function from A onto B are the same, then it is called	A. surjective B. injunctive C. bijective D. on to
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. 2 D. 3
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	A,G,H are in	A. A.P B. G.P C. H.P D. None of these
16	The point _____ is in the solution of the inequality $2x - 3y > 5$	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
17	The solution set of the inequality $ax + by < c$ is	A. straight line B. half plane C. parabola

C. parabola
D. none of these

18 If $f(x) = ax^2$, and $a > 0$, then the lowest point on the parabola is called.

- A. Vertex of parabola
B. Co-ordinates of parabola
C. Roots of the equation
D. Coefficient of the equation

19 Question Image

20 Question Image

D. none of these
