

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	There are n seats round a table numbered 1, 2, 3 n. The number of ways in which m person can take seats is	A. $\frac{n!}{m!}$ B. $\frac{n!}{m!} \times (m-1)!$ C. $\frac{n!}{m!}$ D. None of these
2	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
3	There is no integer n for which 3^n is	A. Odd B. even C. Natural D. Prime
4	Question Image	
5	Which of the following integrals can be evaluated	
6	$f(x) = ax^2 - 3x - 5$, and $f^{-1}(2) = 9$, a is equal to	A. 2 B. 3 C. -2 D. 4
7	The number of ways of arranging the letter AAAAA BBB CCC D EE F in a row when no two C's are together is	
8	If A is singular then $ A =$ _____	A. 1 B. 0 C. 2 D. None of these
9	If n is any positive integer then $2^n > 2(n+1)$ is true for all	
10	The order axioms are satisfied by set of	A. C B. C and R C. R D. None of these
11	A statement which is either true or false is called	A. Induction B. Deduction C. Proposition D. Logic
12	An experiment yields 3 mutually exclusive and exhaustive events A, B, C, if $P(A) = 2$ and $P(B) = 3$. then $P(C) =$	A. $\frac{1}{11}$ B. $\frac{2}{11}$ C. $\frac{3}{11}$ D. $\frac{6}{11}$
13	Question Image	C. $x^2 + 2x + c$ D. $(x^2 + 2x - 1)^2 + c$
14	If the pth, qth, and rth terms of an A.P. are in G.P., then the common ratio of the G.P. is	
15	Deductive logic in which every statement is regarded as true or false and there is no other possibility is called:	A. Deductive logic B. Inductive logic C. Aristotlian logic D. Non-Aristotlian logic
16	Question Image	D. none of these
17	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. $\frac{3}{7}$ B. $-\frac{2}{5}$ C. $-\frac{7}{5}$ D. $-\frac{7}{3}$
18	A person standing on the bank of a river finds that the angle of elevation of the top of a tower on the opposite bank is 45° . then which of the following statements is correct?	A. Breadth of the river is twice the height of the tower B. Breadth of the river an the height of the tower are the same C. Breadth of the river is half of the height of the tower D. None of these

height of the tower
D. None of these

19 The maximum value of the quadratic function $f(x) = 2x^2 - 4x + 7$, is

- A. 3
- B. 5
- C. -3
- D. -5

20 Question Image