

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	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. nP_m B. ${}^nC_m \times (m-1)!$ C. ${}^{n-1}P_m$ D. None of these
3	Question Image	
4	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
5	What is range of the function $g(x) = x-3 $?	A. $[0, \infty)$ B. $(0, \infty)$ C. $(-\infty, 3]$ D. $[0, \infty)$
6	Question Image	A. -3 B. -7 C. 1 D. 0
7	The graph of $y > 0$ is the upper - half of:	A. y-axis B. x-axis C. 1st and 4th quadrant D. 2nd and 3rd quadrant
8	The third term of the sequence $a_n = (-1)^{n-1}(n-7)$ is _____	A. 8 B. 4 C. -4 D. 8
9	Question Image	
10	In $(x + iy)$ y is called as	A. Imaginary part B. Complex number C. Real part D. None of above
11	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
12	The difference of two consecutive terms of an A.P. is called _____	A. General term B. Common ratio C. Common difference D. None of these
13	$\int f(x)$ is known as:	A. Definite integral B. Indefinite integral C. Fixed integral D. Multiple integral
14	Question Image	A. 1 B. 2 C. 3 D. 4
15	A relation A into B in which Domain is not equal to A, is called	A. into function B. onto function C. None of these D. surjective
16	The value of i^{4n+1}	A. 1 B. -1 C. i D. i^2

A. a^5

17	When we expand $(a + 2b)^5$ then	$10a^4b + 40a^3b^2 + 80a^2b^3 + 80ab^4 + 32b^5$ B. $a^5 + a^4b + a^3b^2 + a^2b^3 + ab^4 + b^5$ C. $5a^5 + 4a^4b + 3a^3b^2 + 2a^2b^3 + ab^4 + b^5 + 1$ D. None
18	In the interval $0 \leq x \leq \pi$, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
19	$a_n - a_{n-1}, \forall n \in \mathbb{N} \wedge n > 1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
20	An indicated sum of terms of a sequence is represented by	A. S_n B. a_n C. $S(n)$ D. $\{S_n\}$