

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. 1/6 D. 1/2
2	$5x^3 + 3x - 1$ is a _____	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
3	The term involving x^4 in the expansion of $(3 - 2x)^7$ is	A. 120 B. 1512 C. 1250 D. 15120
4	Question Image	
5	3, 6, 12,.... is	A. A.P B. G.P. C. H.P. D. None of these
6	$16^{\circ}30'$ =	A. 16.5° B. 16.2° C. 16.60° D. 19.9°
7	Question Image	A. $a = a$ B. $a \< a$ C. $a \> a$ D. $a ² = a$
8	$(1 + 2x)^4 =$ _____	A. $1 + 4x + 6x^2 + 4x^3 + x^4$ B. $1 - 4x + 6x^2 - 4x^3 + x^4$ C. $1 - 8x + 24x^2 - 32x^3 + 16x^4$ D. $1 + 8x + 24x^2 + 32x^3 + 16x^4$
9	$154^{\circ}20'$ =	A. $2550/34401\pi$ B. $27721/22400\pi$ C. $2521/32400\pi$ D. $4125/32400\pi$
10	Question Image	
11	Let A and B be two non-empty sets, then any subset of the cartesian product $A \times B$ called a	A. Function B. Domain C. Range D. Binary relation
12	Cycle tyres are supplied in lots of 10 and there is a chance if 1 in 500 tyres to be defective. Using Poisson distribution, the approximate number of lots containing no defective tyre in a consignment of 10, 000 lots is	A. 9028 B. 9208 C. 9802 D. 9820
13	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
14	The positive integer just greater than $(1+0.0001)^{10000}$ is	A. 4 B. 5 C. 2 D. 3
15	Question Image	A. $\cos 3x + c$ B. $-\cos 3x + c$
16	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1

17 The solution of the equation $3 \tan^2 x = 1$ is _____ D. none of these

18 Question Image

19 A particle moving in a straight line with velocity $V = (4-t^2)$ where t is the time from a fixed point. The acceleration of the particle after 4 sec is. A. -8 m/sec^2
B. -4 m/sec
C. -8 m/sec
D. -4 m/sec^2

20 The three consecutive numbers a, \sqrt{ab}, b are in A. G.P
B. H.P
C. G.M
D. None of these