

ECAT Pre Engineering MCQ's Test For Mathematics Full Book

Sr	Questions	Answers Choice
1	If the matrices A and B have the order 1 x 10 and 10 x 1 then order of AB is	A. 1 x 1 B. 1 x 10 C. 10 x 10 D. 10 x 1
2	Roots of the equation x^2 - $x = 2$ are	A. {2, -1} B. {1, 0} C. {2, 1} D. {-2, 1}
3	If $\#$ n = (n-5)2 + 5, then find $\#$ 3 x $\#$ 4.	A. 54 B. 12 C. 4 D. 9
4	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12 D. 7/12
5	If $f(x) = c$ then $\int_{-\infty}^{1} f(x)$ equals:	A. 1 B. 0 C. cx D. c
6	Question Image	A. 8th B. 10th C. 7th D. 3rd
7	The sum of complex number (a,b) and (c,d) is	
8	The harmonic mean between a and b is	
9	x = 0 is in the solution of the inequality	A. x > 0 B. 3x + 4 < 0 C. x + 3 < 0 D. x - 2 < 0
10	The angle of depression of the point at a distance 70 meters from the foot of the tower from the top of the tower is 45^{\square} . The height of the tower is	A. 37m B. 97m C. 101m D. 70m
11	Question Image	A. 30° B. 45° C. 60° D. 75°
12	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
13	The expression x2 - x + 1 has	A. One proper linear factor B. No proper linear factor C. Two proper linear factors D. None of these
14	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
15	Two sets A and B are said to be disjoint if	
16	The point is in the solution of the inequality 2x + 3y < 5	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
17	In set builder notation the set {0,1,2,100} can be written as	A. $\{x \mid x \in B\ \land x \le 100\}$ B. $\{x \mid x \in W\ \land x\ \< 101\}$

		C. $\{x \mid x \in \angle \land x \in Dsp; \< 101\}$ D. The set of first 100 whole numbers
18	If y is an image of x under the function f, then we write	A. $y = f(x)$ B. $x = f(y)$ C. $y = x$ D. none of these
19	If a = {2m/2m < 9 ,m€ p} , the (n A) =	A. {2,3,4,5,6,7,8} B. {2,4,6,816} C. {4,6} D. {2,3,5,7}
20	The law of tangents is	