





ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	How many types of an equation	A. 1 B. 3 C. 2 D. None
2		A. Polynomial of degree 0 B. Polynomial of degree 1 C. Polynomial of degree 2 D. Polynomial of degree n
3		
4		
5	If a, β are the roots of the equation $x^2 + kx + 12 = 0$ such that $a - \beta = 1$, the value of k is	A. 0 B. ± 1 C. ± 5 D. ± 7
6		A. $3K$ B. K^2 C. K^3 D. K
7	We often consult doctors or lawyers on the basis of their good	A. personality B. behaviour C. reputation D. good dealing
8	If n is any positive integer then $n! > n^2$ for	
9	Deduction is mostly used in	A. elementary mathematics B. natural science C. higher mathematics D. medicine
10	If the matrices A and B are conformable for multiplication then $(AB)^t =$ _____	A. AB B. $A^t B^t$ C. $B^t A^t$ D. $A^t B$
11	The n th term of an A.P is $(3n+5)$ Its 75th term is	A. 26 B. 7 C. 21 D. Cannot be determined
12	If $x = at^2$ and $y = 2at$ then $dy/dx =$	A. $2a/y$ B. $y/2a$ C. $-a/2y$ D. $-2y/a$
13	Which of the following is a scalar	A. weight B. force C. speed D. momentum
14	$ax + by < c$ is linear inequality in	A. four variables B. three variables C. two variables D. one variable
15		A. $[0, 0, 0]$ B. $[1, 0, 0]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
16	If \underline{a} and \underline{b} are two vectors then $\underline{a} + \underline{b} =$	A. $\underline{b} + \underline{a}$ B. $\underline{b} - \underline{a}$ C. \underline{ab} D. $\underline{a}^{\wedge} \underline{b}$
17	For any equilateral $\triangle R : \eta : r_1 : r_2 : r_3 =$	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1:2:2:2

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- 18 A man of height 6 ft observes the top of a tower and the foot of the tower at angles of 45° and 30° of elevation and depression respectively. The height of the tower is
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- 19 If $f(x) = (-x)^2$ then $f(-2)$ is
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- 20 If $a + b + c = 0$ then which of the following is true
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- A. 0
B. 2
C. -4
D. 4
- A. $a = b = c = 0$
B. $a, b = b, c = c, a$
C. $a \times b = b \times c = c \times a$
D. None
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