ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	6! = _____	A. 360 B. 720 C. 6.5.4 D. None of these
3	Question Image	A. Free vector B. Null vector C. Unit vector D. None of these
4	If a,b,c are unit vectors then $\lvert a + b\rvert 2 + \lvert a - b\rvert 2$	A. 4 B. 8ab C. 9cos D. 4(a,b)
5	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon
6	Question Image	A. 5 B. 20 C. 9 D. 4
7	If three unequal numbers p, q, r are in H.P. and their squares are in A.P., then the ration p : q : r is	
8	There may be _____ feasible solution in the feasible region	A. Infinite B. Finite C. Defined D. None of above
9	Question Image	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 - m^2 + n^2 = 1$ C. $l^2 + m^2 + n^2 = 1$ D. $l^2 + m^2 - n^2 = 0$
10	The first three terms in the expansion of $(1 + x)^{-2}$ are _____	A. $1 - 2x + 3x^2$ B. $1 - 2x - 3x^2$ C. $1 + 2x + 3x^2$ D. $-2 - 2x + 3x^2$
11	In the expansion of $(x+y)n$ the coefficient of 5th and 12th terms are equal then n=	A. 12 B. n=14 C. 17 D. n=15
12	The identity function is	A. surjective B. injective C. bijective D. into
13	In R, the multiplicative identity is	A. 0 B. 1 C. -1 D. None
14	Question Image	
15	6 is	A. A prime integer B. An irrational number C. A rational number D. An odd integer
16	Question Image	A. conclusion B. consequent C. hypothesis D. conditional

17	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
18	Question Image	
19	The modulus of 12-5i is:	A. 7 B. 13 C. $\sqrt{7}$ D. 119
20	f (x) = | x | is a/an	A. Injective function B. Bijective function C. Surjective function D. Implicit function