ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. Principle of equality of fractions B. Rule for product of fraction C. Rule for quotient of fraction D. Golden rule of fractions
2	A tower subtends an angle of 30° at a point distant d from the foot of the tower and on the same level as the foot of the tower. At a second point, h vertically above the firs, the angle of depression of the foot of the tower, is 60°. The height of the tower is	A. h/3 B. h/3d C. 3h D. 3h / d
3	For≥ -2 , 1+3+5+......+(2n+5)	A. $(n+2)^2$ B. $(n-2)^2$ C. 2n+1 D. $(n+3)^2$
4	In following question, a number series is given with one term missing. choose the correct alternative that will same pattern and fill in the blank spaces.1 , 4, 9, 16, 25, x	A. 35 B. 36 C. 48 D. 49
5	The two lines x + y = 0 and 2x - y + 3 = 0 intersect at the point:	A. (-1,1) B. (2,3) C. (1,3) D. (-1,2)
6	(a,b) = (c,d) if and only if	A. a=b and c =d B. a = d and b = c C. a = c and b = d D. a - b = c -d
7	If f(x) = x^3- 2x^2+ 4x -1 then f(0) is	A. 0 B. 1 C. -1 D. none of these
8	If A is a set then any subset R of A x A is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
9	If a = 2i +2j, b= 3i -j and c=4i +5j, the 3b -a-2c =	A. -i -15j B. i-15j C. i-3j D. None of these
10	Question Image	A. 3 B. 6 C. 0 D. None of these
11	If S is a sample space and event set E =Φ then P(E) is	A. >0 B. 1 C. <1 D. 0
12	The set {0,-1} hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
13	Question Image	A. 4 B. 3 C. 2 D. 1
14	In a country 55% of the male population has houses in cities while 30% have houses both in cities and in villages find the percentage of the population that has houses only in villages	A. 45 B. 30 C. 25 D. 50
15	{1, 2, 3, 4,.....} is set of _____	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers

16	The domain of f(x) = log x is	A. [0, ∞] B. (0, ∞) C. [0, ∞)[D. [∞, ∞]
17	Question Image	A. $1 + \tan^2 x + c$ B. tan x + c C. -tan x + c D. cot x + c
18	Which of the following represents a vector	D. (x, y)
19	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true
20	Question Image	