Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. y/x B. x/y C. y/z D. None
2	An equation of the form ax + by = k is homogeneous linear equation when:	
3	The roots of the equation will be irrational if b^2- 4ac is	A. Positive and perfect square B. Positive but not a perfect square C. Negative D. Zero
4	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
5	$(1 - x)^3$= _____	A. $1 + 3x + 3x^2 + x^3$ B. $1 + x + x^2 + x^3$ C. $1 - x + x^2 - x^3$ D. $1 - 3x + 3x^2 - x^3$
6	Question Image	
7	6! = _____	A. 360 B. 720 C. 6.5.4 D. None of these
8	Question Image	
9	the latus rectum of the parabola x^3 = -4ay is:	A. x = a B. y = -a C. x = -a D. y = 0
10	Question Image	A. 0 B. 1 C. -1 D. None of these
11	Question Image	
12	Question Image	A. a tan(ax + b) + c B. - a tan(ax + b) + c
13	$\cot\theta$= $\sin 2\theta$ if θ=	
14	The fifth term of (a+2x3)17 is	A. 4013 x3a13 B. 2208a13 x12 C. 223x7a18 D. 38080a13 x12
15	Power set of difference set N-W is	A. Empty set B. Infinite set C. Singleton set D. {0,∅}
16	The first three terms in the expansion of $(1 - x)^{-3}$ are	A. $1 + 3x + 6x^2$ B. $1 - 3x + 6x^2$ C. $-3 - 3x - 6x^2$ D. $1 - 3x - 6x^2$
17	Question Image	
18	If #n = (n-5)2 + 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9

19	Question Image	
20	For a positive integer n	A. n! = n(n + 1) B. n! = n(n+1)! C. n! = n(n - 1) D. n! = n(n - 1)!