Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	(1, 2) is in the solution of the inequality	A. 2x + y > 8 B. 2x + y <u><</u> 6 C. 2x - y > 1 D. 2x + 3y < 2
2	Question Image	A. -2 B. -1 C. 1 D. 2
3	Question Image	
4	Five engineering, four mathematics, two chemistry books are placed on a table at random.The probability that the books of each kind are all together is	
5	If in a set of real no a is multiplicative identity then	A. a,a = a² B. a,a = 1 C. a,a = 0 D. None of these
6	Question Image	
7	Another name of quadratic equation is	A. Polynomial B. 2nd degree polynomial C. Linear equation D. simaltaneous equations
8	For a square matrix A, if A = At, then A is called	A. Matrix B. Transpose C. Symmetric D. Non-symmetric
9	Question Image	
10	If the roots of $ax^2+ b = 0$ are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0, b > 0
11	(1,0) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 3 D. x - 2y < -5
12	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
13	Only one of the root of ax2 + bx + c =0, a≠ 0 is zero if	A. c = 0 B. c = 0,b≠ 0 C. b = 0,c = 0 D. b = 0,c≠ 0
14	A sequence is a function whose domain is	A. N B. Subset of N C. R D. None of these
15	∀x,y∈ R and x < 0, y < 0, which one is true	A. xy < o B. xy = o C. xy > o D. None of these
16	If $(1+x-2x^3)^6= 1+a_1x + a_2x^2+ a_3x^3+$ ..... the the value of $a_2+ a_4+ a_6+$ .....$+a_{12}$will be	A. 32 B. 31 C. 64 D. 1024
17	sin -1(sin2π/3) =	A. π/2 B. 2π/3 C. -3π/2 D. π/3

18	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
19	The set {-1, 1} is	A. Group under the multiplication B. Group under addition C. Does not form a group D. Contains no identity element
20	The standard form of the quadratic function $f(x) = -x^2 +4x+2$, is	A. (x-2)²+6 B. -(x-2)² + 6 C. (x-3)²+5 D. (x+4)²-7