Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If the function y=2x -3, what is the preimage of 11?	A. 11 B. 7 C. 5 D. 2
3	The point lying on the terminal rat of -270° is	A. (1,0) B. (0,-1) C. (0,1) D. (-1,0)
4	Question Image	
5	The negative square root of 9 can be written as:	A. $-\sqrt{9}$ B. $\sqrt{9}$ C. $\sqrt{18}$ D. $-\sqrt{18}$
6	Question Image	A. A rational number B. A natural number C. An irrational number D. An integer
7	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12 D. 7/12
8	(a-1)-1 =	A. a-1 B. a C. -a D. None of above
9	The maximum value of Z = 3x+ 4y subjected to the constrains x+ y≤ 40,x+ 2y≤ 60, x≥ 0 and y≥ 0 is	A. 120 B. 100 C. 140 D. 160
10	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
11	Question Image	
12	The coefficient of x^{10} in the expansion $(x^3+3/x^2)^{10}$ is	A. 1700 B. 17023 C. 17027 D. 17010
13	The only function which is both even and odd is	A. $f(x) =\alpha$ B. $f(x) = x$ C. $f(x) =0$ D. Both A & B
14	Which is in the solution set of 4x - 3y < 2	A. (3, 0) B. (4, 1) C. (1, 3) D. None
15	If $a_1= a_2= 2$, $a_n= a_{n-1}- 1$ (n > 2), then a_5 is	A. 1 B. 0 C. -1 D. -2
16	IfΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula
17	Question Image	A. 0 B. 1 C. -1

18	Domain of y = cot x = _____
19	Domain of tan x is _____
20	Two sets A and B are said to be disjoint if