Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The line through the intersection of the lines x+ 2y+ 3= 0 : 3x +4y +7 =0 and making equal intercepts on the axes is	A. x+ y+ 1= 0 B. x+ y- 2= 0 C. x+ y+ 2= 0 D. 2x +y +2 =0
2	3, 6, 12,.... is	A. A.P B. G.P. C. H.P. D. None of these
3	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
4	Question Image	A. 8 C. 4 D. 64
5	∀x∈(a,b),f(x) is increasing if	A. f′(x) >0 B. f′(x) <0 C. f″(x) >0 D. f″(x) =0
6	The point _____ is in the solution of the inequality 2x - 3y < 4	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
7	Question Image	A. cot x + c B. tan x + c C. -cot x + c D. -tan x + c
8	General solution of 1 + cos x = 0 is	
9	Question Image	A. 0 B. 1
10	The intercepts of the plane 2x - 3y + 4z = 12 on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5
11	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
12	If t is the parameter for one end of a focal chord of the parabola y^2= 4ax, then its length is	
13	x = $\sin^{-1}$ 3, then the value of sin x is	A. √(3/2) B. 3 C. Not possible D. -1
14	If S is a sample space and event set E = S then P(E) is	A. >0 B. 1 C. <1 D. 0
15	How many types of an equation	A. 1 B. 3 C. 2 D. None
16	The set of the first elements of the orders pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation In A
17	The 6th term of the sequence 7,9,12,16.....is	A. 27 B. 32 C. 20

		D. 19
18	Write the first four terms of the arithmetic sequence 5, 2, -1, ... is	A. 3 B. -4 C. 7 D. 1
19	Optimize means _____ a quantity under certain constraints	A. Minimize B. Maximize C. Maximize or minimize D. None of these
20	Both the roots of the equation (x -b) (x - c) + (x -c) (x-a) +(x-a) (x-b) = 0 are always	A. Positive B. Negative C. Real D. None of these