Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If f(α) = b2 and g (c) =d where c=b2 then (gof)(a) is	A. α B. c C. b D. d
2	The vertex of the equation $y^2 = 4ax$ is:	A. (2, -2) B. (1,1) C. (0 , 0) D. (2 , 2)
3	The interval in which f(x)=x3-6x2+9x is increasing	A. 1<x<3 B. x<1 and x>3 C. X ≥1 and x ≤ 3 D. -∞ < x < ∞
4	In R, the multiplicative inverse of a is	A. 0 B. 1 C. -a D. 1/a
5	Question Image	
6	Write down the power set of {9, 11}	
7	Question Image	
8	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
9	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²
10	Question Image	A. 120 B. 5 C. 4 D. 6
11	If S and P are the sum and the product of roots of a quadratic equation, then the quadratic equation is	A. x²+ Sx - P = 0 B. x²- Sx + P = 0 C. x²- Sx - P = 0 D. X²+ Sx + P = 0
12	Question Image	D. none of these
13	The set {1, -1, 1, -1}, form a group under	A. Addition B. Multiplication C. Subtraction D. None
14	If A(a,b) lies on 3x +2y =13 and point B(b,a) lies on x-y =5 then equation of AB is	A. x- y= 5 B. x+ y+ =5 C. x+ y= -5 D. 5x +5y =21
15	Which of the following is an identity matrix?	D. none of these
16	Question Image	
17	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
18	Question Image	
19	If A is a non singular matrix then A^{-1}= _____	
		A. (2x+a+b+c) B. (a+b+c)

20	Question Image	C. (a+b+c+x) D. 0