Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If a,b,c are in arithmetic progression, then 1/a,1/b.1/c are in	A. A.M B. G.M C. H.M D. G.P
2	If $(1+x)^n = C_0 + C_1 x + C_2 x^2 + \ldots + C_n x^1$ then $C_0 C_2 + C_1 C_3 + C_2 C_4 + \ldots + C_{n-2} C_n =$	
3	$\cos h^2 x + \sin h^2 x$	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
4	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true
5	Period of sin 3x is _____	
6	The formula an = a +(n-1)d for an A.P is called	A. nth term of an A.P B. Sum of first n terms C. A,M between a and b D. None of the above
7	The axis of the parabola $y^2 = 4ax$ is	A. X = 0 B. Y = 0 C. X = y D. X = -y
8	Question Image	
9	If A and B are two sets then any subset R of B x A is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
10	The domain of f(x) = log x is	A. [0,<i>∞</i>] B. (0,<i>∞</i>) C. [0,<i>∞</i>[D. [<i>∞</i>,<i>∞</i>]
11	The parabola $y^2 = x$ is symmetric about	A. x-axis B. y-axis C. Both x and y-axis D. The line y = x
12	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P.

13	Question Image	
14	Question Image	

| 15 | The number of subsets of a set having three elements is | A. 4
B. 6
C. 8
D. none of these |

| 16 | x = _____ is in the solution of 2x + 3 < 0 | A. 0
B. 2
C. -1
D. -2 |

| 17 | The distance between the points A(-8,3) and B(2,-1) is | B. 116
D. none of these |

| 18 | Question Image | |

| 19 | $\sin^{-1} x =$ | A. $\tan^{-1} x$
B. $\operatorname{Cosec}^{-1} x$
C. Cosec x
D. $\operatorname{cosec}^{-1}(1/x)$ |

| 20 | Number of lines passing through three non-collinear points is | A. 2
B. 3
C. 1
D. 0
E. ∞ |