

## Mathematics General Science Test Medium Mode

0		4 01 :
Sr	Questions	Answers Choice
1	A = B iff	A. All elements of A also the elements of B     B. A and B should be singleton     C. A and B have the same number of elements     D. If both have the same element
2	The set of ordered pairs $(x,y)$ such that ax+ by < c, and $(x,y)$ such that ax + by>0, are called	A. Half planes B. Boundary C. Linear Inequalities D. Feasible regions
3	The exact value of cos-1 (0) is	A. π/2 Bπ/2 C. 3π D. π-π/6
4	In quadratic equation y=ax <sup>3</sup> +bx+c, if b and c are both zero then the graph is	A. Symmetric w.r.t.y-axis B. Symmetric w.r.t.x-axis C. Straight Line D. Circle
5	Period of tan x is	
6	Sequence also called	A. Series B. Function C. progressions D. Elements
7	What is the value of cos (cos-1 2)?	A. √2 B. 1/2 C. undefine D. 0
8	For each natural number n, n (n+1) is	A. an even B. an odd C. multiple of 3 D. Irrational
9	The number of values of x in the interval $[0, 5\pi]$ satisfying the equation $3 \sin^2 x - 7 \sin x + 2 = 0$ is	A. 0 B. 5 C. 6 D. 10
10	A key ring is an example of	A. Permutation B. Circular permutation C. Combination D. None
11	Tan 360° =	A1 B. 0 C. 1 D. Undefined
12	Question Image	
13	The range of the principle cot function is	
14	The sum of co-efficient in $(1+x-3x^2)^{4163}$ is	A. 0 B. 1 C1 D. None
15	Question Image	A. 5 B. 20 C. 9 D. 4
16	Question Image	
17	Question Image	
40		A. 4 B. 1/2

lβ	If $u = 2a\underline{l} + \underline{l} - \underline{k}$ and $\underline{v} = \underline{l} + a\underline{l} + 4\underline{k}$ are perpendicular then $a =$	C. 3 D. 4/3
9	Question Image	
20	The sum of an infinite geometric series exist if	A.   r   < 1 B.   r   > 1 C. r = 1 D. r = -1