

## Mathematics General Science Test Medium Mode

•		A 01 :
Sr	Questions	Answers Choice
1	The square root of every incomplete square is an	A. Rational numbers     B. Even numbers     C. odd numbers     D. Irrational numbers
2	Question Image	
3	How many arrangements of the letters of the word MI SSI PPI, taken all together can be made?	
4	Question Image	A. 30° B. 45° C. 60° D. 90°
5	If the vertex of the parabola is the origin and directrix is $x+5=0$ . then its latus rectum is:	A. 10 B. 5 C. 0 D. 20
6	If a,b c are sides of a triangle taken in order then a x b =	A. b x c B. b x a C. cxa D. Both a & amp; b
7	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53 to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
8	The locus of the point of intersection of tangents to an ellipse at two points, sum of whose eccentric angles is constant is	A. A parabola B. A circle C. An ellipse D. A st. line
9	6 is	A. A prime integar B. An irrational number C. A rational number D. An odd integer
10	The differential equation representing the family of curves $y = A \cos(x + B)$ , where A, B are parameters, is	
11	The largest possible domain of the function: $y=\sqrt{(x\ )}$ is:	A. (0,∞) B. 12 C. (3, 12) D. (3,∞)
12	If w+w2 is a root of $(x+1)(x+2)(x+3)(x+4) = k$ , then	A. k=0 B. k=1 C. k=w D. k=w2
13	Question Image	
14	2 $\pi$ + $ heta$ will have terminal side in Quad	A. I B. II C. III D. IV
15	If A is a non-singular matrix then adj A is	A. Non-singular B. Symmetric C. Singular D. Non defined
16	Question Image	A. 1 B. 2 C. 0 D. 4
17	Domain of $\cot heta$ is	
		A. 2 <sup>9</sup>

18	Let the sequence 1, 2, 2, 4, 4, 4, 4, 0, 0, 0, 0, 0, 0, 0, 0, where it consecutive terms have the value n, then 1025th term is	C. 2 <sup>10</sup> D. 2 <sup>8</sup>
19	The exterior angle of the interior angle C of he quadrilateral whose vertices are A(5,2),B(-2,3),C(-3,-4),D(4,-5) is	A. 30° B. 60° C. 45° D. 90°
20	If the st. line $3x + 4y = K$ touches the circle $x^2 + y^2 - 10x = 0$ then the value of K is	A1 or 20 B10 or 40 C2 or 20 D. 2 or 20