

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $n$ is any positive integer then $4^n > 3^{n+4}$ is true for all	
2	The point of contact of the circles $x^2 + y^2 - 6x - 6y + 10 = 0$ and $x^2 + y^2 = 2$ is	A. (-3, 2) B. (1, 3) C. (-2, -1) D. None of these
3	Question Image	A. trigonometric equation B. conditional equation C. identity D. None
4	Area of the triangle whose vertices are (2,3),(0,1),(0,0) is	A. 6 B. 2 C. 4 D. 1
5	A Geometric Series is divergent only if	A. $ r  > 1$ B. $ r  \geq 1$ C. $ r  = 1$ D. None of these
6	Question Image	
7	The set $\{\{a, b\}\}$ is	A. Infinite set B. Singleton set C. Two points set D. None
8	Question Image	A. $e^{x^2} + c$ B. $e^{-x^2} + c$ C. $x e^{x^2} + c$ D. not possible
9	Question Image	A. a constant function B. linear function C. quadratic funtion D. none of these
10	Question Image	A. Scalar matrix B. Identity matrix C. Null matrix D. Symmetric matrix
11	Question Image	
12	The multiplicative inverse of $x^a(-1)$ is	A. $x$ B. $a-2$ C. 0 D. 1
13	The additive identity of real number is	A. 1 B. 2 C. $1/2$ D. $<b>0</b>$
14	The cube roots of 8 are	
15	The set of real numbers is a subset of	A. The set of natural numbers B. The set of rational numbers C. The set of integers D. The set of complex numbers
16	The identity elements with respect to subtraction is	A. 0 B. 1 C. -1 D. Does not exist
17	How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once?	A. 15 B. 24 C. 60 D. 120
		A. $y + 1 = A e^{x^2}$

18	Question Image	<p>B. <math>y + 1 = Axe^{x/sup}</math></p> <p>C. <math>xe^{sup}x &lt;/sup&gt;= C</math></p> <p>D. <math>y + xe^{sup}x &lt;/sup&gt;= C</math></p>
19	Question Image	
20	A function of the form $p(x)/Q(x)$ is called:	<p>A. Rational function</p> <p>B. Logarithmic function</p> <p>C. Exponential function</p> <p>D. Hyperbolic function</p>