Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The number of significant numbers which can be formed by using any number of the digits 0, 1, 2, 3, 4 but using each not more than once in each number is	A. 260 B. 356 C. 410 D. 96
2	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
3	graph of trigonometric function y = sec x does not meet	A. x - axis B. y -axis C. both axis D. None of these
4	99th term of the series 2 + 7 + 14 + 23 + 34 + ... is	A. 9998 B. 9999 C. 10000 D. None of these
5	Question Image	
6	Question Image	
7	If n is a positive integer then n! is	A. (n - 1) (n - 2) .....3,.2.1 B. n(n - 1) (n - 2) ...3.2.1 C. n(n - 1) (n -2) ... 3 D. None of these
8	Vector $\underline{i}$ =	A. [1,0] B. [0,1,0] C. [0,0,1] D. None of these
9	A function in which the second elements of the order pairs are distinct is called	A. Onto function B. One-one function C. Identity function D. Inverse function
10	Question Image	A. 1/2 B. 2 C. 1/4 D. 4
11	Question Image	
12	The negative square root of 9 can be written as:	A. -√9 B. √9 C. √18 D. -√18
13	Question Image	A. -2x cos x² B. -2x²sin x² C. -x²sin x D. -2x²sin x²
14	Question Image	A. sec x tan x B. -cosec x cot x C. sec²x D. -sin x
15	Question Image	A. An expression B. Rational fraction C. Equation D. Identity
16	The solution set of the equation $\tan^{-1}x - \cot^{-1}x = \cos^{-1}(2 - x)$ is	A. [0, 1] B. [-1, 1] C. [1, 3] D. None of these
		A. (g,f)

17	Question Image	B. (-g,f) C. (g,-f) D. (-g,-f)
18	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
19	Question Image	A. 0 B. -1 C. 1 D. 2
20	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant