Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which of the following is not a unit vector	A. [1, 1, 1] B. [0, 1, 0] C. [0, 0, 1] D. [1, 0, 0]
2	f(x)g(x)- ∫g(x) f′(x) dx is equal to	A. ∫f(x)g′(x)dx B. ∫f′(x)g(x)dx C. ∫f′(x)g(x)′dx D. ∫f(x)g(x)dx
3	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
4	The slope of the normal at (4,3) to the circle $x^2+y^2=25$ is	A. 3/4 B. -3/4 C. 4/3 D. -4/3
5	The transport of a square matrix is a	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
6	Inequalities have _____ symbol	A. 2 B. 3 C. 4 D. 1
7	Question Image	A. cosec x + c B. -cosec x + c C. -sec x + c D. sec x + c
8	Question Image	
9	Question Image	D. none of these
10	csc(-π/2) = _____;	A. 0 B. 1 C. -1 D. Undefined
11	Φset is the _____ of all sets?	A. Subset B. Union C. Universal D. Intersection
12	$f(x) = 3x^4 -2x^2 + 7$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
13	A key ring is an example of	A. Permutation B. Circular permutation C. Combination D. None
14	Question Image	
15	How many 6-Digit number can be formed without repairing any digit from the digits 0,1,2,3,4,5	A. 720 B. 600 C. 120 D. 6-5!
16	Area of inscribed circle is	A. π R2 B. π η2 C. π r22 D. π r2
17	Domain of cot x is _____	
18	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these

19	Sin $h^{-1}x$ = _____	
20	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. 4 : 4! B. 4! C. 5! D. 4!+4!