

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A function which is to be maximized or minimized is called an	A. Explicit function B. Implicit function C. Objective function D. None
2	Te order of the differential equation of all conics whose axes coincide with the axes of coordinates is	A. 2 B. 3 C. 4 D. 1
3	tan(2π+θ) =;	A. tanθ Btanθ C. cotθ Dcotθ
4	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
5	If $y = \sin(ax + b)$, then fourth derivative of y with respect to $x =$	A. a ⁴ cos (ax + b) B. a ⁴ sin (ax + b) Ca ⁴ sin (ax + b) D. a ⁴ tan (ax + b)
		A. 6x - 2 + c B. x ³ - x ² + x
6	Question Image	+ c C. 6x - x ² + c D. 6x ³ - x ² + c
7	The positive integer just greater than (1+0.0001) ¹⁰⁰⁰⁰ is	A. 4 B. 5 C. 2 D. 3
8	$f(x) = 3x/x^2 + 1$ is:	A. an even functionB. an odd functionC. an even and implicit functionD. neither even nor a odd
9	What is range of the function g (x) = $ x-3 $?	A. [0,∞) B. (0,∞) C. (-∞,3] D. [0,∞)
10	If distance of (a,b) from origin is 5 then	A. a ² + b ² =5 B. a = 5 C. b = 5
11	The set of points $\{(x,y) y=f(x), \forall x \in \}$ is called	A. Relation B. Graph of f C. Function D. All are correct
12	(1,0) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 3 D. x - 2y < -5
13	Question Image	
		A. 3sin a - 4sin3a B. 4sin a -3 sin3 a
14	sin 3a =;	C. 3 cos3 a -cosa D. 4cos3 a - 3cos a
15	Question Image	
16	The A.M. of two numbers is 34 and G.M. is 16, the numbers are	A. 2 and 64 B. 64 and 3 C. 64 and 4

		D. None of these
17	For n€ N,2 ^{n>2} > n is to only when	A. n<2 B. n≤ 4 C. n≥ 4
18	The slope of the normal at the point (at 2 , 2at) of the parabola y^2 = 4ax is	A. 1/t B. t Ct D1/t
19	The range of function f(x)=-x2+2x-1 is	A. R B. (-∞,0] C. (-∞,1] D. [0,∞)
20	The point is in the solution of the inequality 2x - 3y < 4	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)