Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$30° =$ _____	
2	Question Image	
3	120° degrees are equal to how many radians?	
4	If a > 0, b > 0, c > 0, then the roots of the equation $ax^2 + bx + c = 0$ are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
5	$i^2 =$	A. 1 B. 2 C. -1 D. 0
6	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
7	The distance between the points (0 , 0) and (2, 1) is	A. 5 C. 0 D. 3
8	If $k^2x^2 + 2hxy - 4y^2 = 0$ represents two perpendicular lines then	A. k = 2 B. k = ±2 C. k = -2 D. k ≠0
9	Question Image	A. sec x tan x B. -cosec x cot x C. $sec^2 x$ D. -sin x
10	What is the period of sin 2x/3 cos 4x=?	A. π B. 2π C. π/2 D. π/3
11	2π is the period of	A. sin□ B. tan□ C. cot□ D. all circular function
12	Question Image	
13	The factorial of a positive integers is a (an)	A. Rational number B. Positive integer C. Real number D. None
14	Question Image	A. 3/4 B. -3/4 C. 4/3 D. -4/3
15	The mid point of the line segment joining the points (3,-1) and (-3,1) is	A. (3,-1) B. (0,0) C. (2,2) D. (4,4)
16	The equation of vertical asymptotes of y = cos ecx is	A. x = 0 B. y = 0 C. x =∞ D. y =∞
17	If f (x) = 2x+1 then fof (x) = _____;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
18	Question Image	A. 20 B. 10 C. 0

19	A square matrix all of whose elements except the main diagonal are zeros is called a	A. Null matrix B. Singular matrix C. Symmetric matrix D. Diagonal matrix
20	The equation $|x + 4| = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$