Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	(fog)'(x) =f'(g(x))g'(x) is derivative by	A. Chain rule B. Reciprocal rule C. Power rule D. Product rule
2	In a triangle if a > 45°,β > 30° then y cannot be	A. 90° B. 100° C. 10° D. 120°
3	Question Image	
4	If z_1= 2 + 6i and z_2= 3 + 7i, then which expression defines the product of $z_1$and z_2?	A. 36 + (-32)i B. -36 + 32i C. 6 + (-11)1 D. 0, +(-12)i
5	Question Image	D. none of these
6	Question Image	A. cos 2x + c B. - cos 2x + c C. tan 2x + c D. cot 2x + c
7	The equation of the chord of the circle x^2+ y^2- 4x = 0 whose mid-point is (1, 0) is	A. y = 2 B. y = 1 C. x = 2 D. x = 1
8	The nth term of an A.P is (3n+5) Its 75th term is	A. 26 B. 7 C. 21 D. Cannot be determined
9	Question Image	
10	(x +a)(x +b)(x +c)(x +) = k, k≠0 is reducible to quadratic form only if	A. a+b=c+d B. a+c=b+d C. a+d=b+c D. All are correct
11	The roots of the equation will be irrational if b^2- 4ac is	A. Positive and perfect square B. Positive but not a perfect square C. Negative D. Zero
12	Question Image	
13	Question Image	
14	Through how many radians does the minute hand of a clock turn in one hour	
15	F(x) = x^xdecreases in the interval	A. (0, e) B. (0, 1) C. (-∞ ,0) D. None
		A. sin<span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text- align: center; background-color: rgb(255, 255, 248);">θ = 1/2 B. tanθ

16	If $\theta = 60°$ then	= cot 30° C. θ=π/4 D. secθ= 4
17	Question Image	
18	Question Image	
19	The system of measurement in which the angle is measured in radians is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
20	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these