Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Distance between A(3, 8), B(5, 6) is	
2	Question Image	A. a tan(ax + b) + c B. - a tan(ax + b) + c
3	The function f : x→ y defined as f (x) =α∀x∈ X,α∈ y is called	A. Constant function B. Polynomial function C. Identity function D. Linear function
4	Question Image	
5	Question Image	
6	f(x) = x is	A. trigonometric function B. exponential function C. quadratic function D. identify function
7	Question Image	A. 2x + 2y B. 4 - x^2 C. -x/y D. x/y
8	Question Image	
9	If e,e′ be the eccentricities of two conics S=0 and S′ =0 and if e2 +e′2 =3 then both S and S′ can be	A. Hyperbola B. Parabolas C. Ellipses D. None of these
10	The sum of the squares of three distinct real numbers, which are in G.P., is S^2. if their sum is αS then	
11	If $\lvert x \rvert < 1$, then the first two terms of $(1 - x)^{1/2}$ are	
12	The value of x, and y, when $(x + iy)^2 = 5 + 4i$	A. X = 2, y = 1 B. X = -2, y = 1 C. X = 2, y = -1 D. X = 2, y = 2
13	The line Ax + By + C = 0 will touch the circle $x^2 + y^2 = \lambda$ *when*	A. $C^2 = \lambda(A^2 + B^2)$ B. $A^2 = \lambda(A^2 + C^2)$ C. $B^2 = \lambda(A^2 + C^2)$ D. None of these
14	Roots of the equation $9x^2 - 12x + 4 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
15	Question Image	A. The law of sines B. The law of tangents C. The pythagorus theorem D. None of these

16	What is the probability of being born on Wednesday?	A. 1/7 B. 1/2 C. 1/3 D. 1/8
17	Cos-1(x)=	A. cos x B. x C. tan-1(-x) D. Sec-1 (1/x)
18	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
19	Question Image	
20	Question Image	A. Rational B. Irrational C. Natural D. Odd