Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. 1 B. 3 C. 2-i D. -1
3	An equation in which at least one term contains dy/dx, d^2 y /dx^2etc, is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation
4	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating
5	f(x) = 1 is	A. identity function B. constant function C. linear function D. quadratic function
6	Question Image	
7	Question Image	
8	The point (x_1, y_1) lies outside the circle x^2+ y^2+ 2gx + 2fy + c =0 if	
9	Question Image	
10	Question Image	
11	if the value of the sphere, v =4/3πr^{2,} then the which of the following statement is true?	A. r is the function of v B. v is the function ofπ C. π is independent variable D. None of these
12	A function of the form p(x)/Q(x) is called:	A. Rational function B. Logarithmic function C. Exponential function D. Hyperbolic function
13	The synthetic division method is only used to divide a polynomial by	A. quadratic equation B. binomial C. linear equation D. monomial
14	Question Image	A. perpendicular vectors B. concurrent vectors C. parallel vectors D. none of these
15	The roots of the equation ax^2+ bx + c = 0 are complex/imaginary if	A. b²- 4ac < 0 B. b²- 4ac = 0 C. b²- 4ac > 0 D. None of these
16	Question Image	
17	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
18	Let the equation ax^2- bx + c = 0 have distinct real roots both lying in the open interval (0, 1) where a, b, c are given to be positive integers. Then the value of the ordered triplet (a, b, c) can be	A. (5, 3, 1) B. (4, 3, 2) C. (5, 5, 1) D. (6, 4, 1)
19	cos h^2 x + sin h^2 x	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd

20	i =	A. √1 B. √2 C. √-2 D. √-1