Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The graph of y < 2 is the	A. Left half plane B. upper half plane C. Right half plane D. Lower half plane
2	If the roots of ax2 + b =0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0,b > 0
3	Question Image	A. e^x+ c B. e^{-x}+ c C. x e^x+ c D. not possible
4	Question Image	A. 0 B. 1 C. 2 D. 4
5	Question Image	A. Principle of equality of fractions B. Rule for product of fraction C. Rule for quotient of fraction
6	Two circles x2 +y2 +8x -9= 0 and x2+y2+6y +k =0 touchinternallyif the value of k is	A. k = 9 B. k = ±9 C. k=-9 D. k=11
7	Question Image	A. R/[0,4] B. R/(0,4) C. (0,4) D. [0,4]
8	Question Image	
9	The discriminant of the quadratic equation $ax^2+ bx + c = 0$ is	A. b²+ 4ac B. b²- 4ac C. 4ac - b² D. a²- 4ac
10	If a > b or a < b than a = b is a	A. Additive property B. Transitive property C. Trichotomy property of inequality
11	Which of the following ordered pair is a solution of the inequality x+2y<6?	A. (2,3) B. (2,2) C. (6,0) D. (1,1)
12	Question Image	
13	Question Image	A. x³- x²+ x + c B. 6x - 2 + c C. x³- 2x + c
14	The domain of an infinite sequence is a	A. Set of natural numbers B. R C. Subset of N D. None of the above
15	Equation of the chord of contact to the tangents drawn from (-3,4) to the circle x2 + y2 = 21	A. -3x + 4y =21 B. 4x - 3x = 0 C. -3x + 4y = 25 D. None of these
16	If $ax^2+ bx + x = 0$ is satisfied by every value of x, then	A. b = 0, c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
17	For all points (x,y) on y-axis	A. x is positive B. x = 0 C. x is negative

		C. A is negative D. y = 0
18	If n is odd then the middle terms in the expansion of $(a + x)^n$ are	
19	The second degree equation of the form Ax2 +By2 +Gx +Fy +C =0 represent hyperbola if	A. A = B≠ 0 B. A≠ B and both are of same sign C. A≠ B both are of opposite sign D. Either A = 0 or B =0
20	Question Image	A. An expression B. Rational fraction C. Equation D. Identity