Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. n! B. 0! C. 1 D. None of these
2	The set of ordered pairs (x,y) such that ax+ by < c, and (x,y) such that ax + by>0, are called	A. Half planes B. Boundary C. Linear Inequalities D. Feasible regions
3	The seventh term of (x3+1/x)8is	A. 71 B. -22 C. 27 D. 28
4	The property used in -3 <-2 ⇒0 <1	A. Commutative property B. Additive property of inequality C. Additive inverse D. Additive identity
5	∫ x cos dx is equal to :	A. x cos x + sin x B. cos x + x sin x C. x cos x + x sin x D. x sin x + cos x
6	A die is rolled. What is the probability that the dots on the top are greater than 4?	A. 1/4 B. 1/2 C. 1/3 D. 1/33
7	If the domain of the function f: x□ $2x^3$+ 1 is {-1,2,3}, the range of the function is	A. {3,2,5} B. {1,3,9} C. {-1,-2,-3} D. {3,9,19}
8	Question Image	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
9	If one root of the equation ix^2- 2(i + 1) x +(2 - i) = 0 is 2 - i, then the other root is	A. -i B. 2 + i C. i D. 2 - i
10	The range of the tangent function is	A. all real numbers B. -1 ≤ x ≥ 1 C. natural number D. z⁺
11	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
12	Question Image	
13	A chord passing through the centre of the circle is called	A. the secant of the circle B. the tangent of the circle C. the arc of the circle D. the diameter of the circle
14	The set of even prime numbers is	A. (2,4,6,8,10} B. {2,4,6,8,10,12} C. {1,3,5,7,9} D. {2}
15	If y=sin(ax+b) then y4=_____:	A. sin4(ax+b) B. a4sin(ax+b) C. a4cos(ax+b) D. None of these
16	Which of the following sets is infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers

16	Which of the following sets in infinite	between 3 and 10 D. The set of rational numbers between 3 and 10
17	Question Image	A. sec 5x + c B. - sec 5x + c
18	For all points (x,y) on y-axis	A. x is positive B. x = 0 C. x is negative D. y = 0
19	Question Image	A. 0 B. 1 C. 1/2
20	If n is any positive integer then $n^2 > n + 3$ for	