Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$n! > 2^n - 1$ is true when	A. $n \le 3$ B. $n \le 6$ C. $n \ge 4$ D. $n \le 6$
2	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
3	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
4	If $0 = \{1,3,5.......\}$, then $n(0) =$	A. Infinite B. Even numbers C. odd integers D. 99
5	Question Image	A. p < r B. p > rr C. p + r < 0 D. p - r < 0
6	Question Image	
7	Question Image	
8	Geometric mean between a and b is	
9	Which is not a half plane	A. ax + by < c B. ax + by > c C. Both A and B D. None
10	In R the left cancellation property w.r.t addition is	
11	Area bounded between the curve xy=2 and the lines x=1 and x=2	A. ln2 square units B. ln$\sqrt{2}$ square units C. ln4 square units D. Square units
12	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
13	θ and $2k\pi+\theta$ are the _____ angles	A. Quadrantal angles B. Coterminal C. Allied D. None
14	If $z=(x,y)$ then z has no multiplicative inverse when	A. x ≠ 0, y = 0 B. x = 0, y = 0 C. x = 0, y ≠ 0 D. None of these
15	Each complex cube root of unity is square of	A. itself B. 1 C. -1 D. the other
16	If A(a,b) lies on 3x +2y =13 and point B(b,a) lies on x-y =5 then equation of AB is	A. x- y= 5 B. x+ y+ =5 C. x+ y= -5 D. 5x +5y =21
17	If x < y, 2x = A, and 2y = B, then	A. A = B B. A < B C. A < x D. B < y
		A. $(x-2)^2$+6

18	The standard form of the quadratic function $f(x) = -x^2 + 4x + 2$, is	B. $-(x-2)^2 + 6$ C. $(x-3)^2 + 5$ D. $(x+4)^2 - 7$
19	Question Image	A. 45° B. 30° C. 75° D. 60°
20	If sin A = cos A, 0°<A<90° then A is equal to	A. 1 B. 1/2 C. 0 D. None of these