Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	(1,0) is in the solution of the inequality	A. $3x + 2y > 8$ B. $2x - 3y < 4$ C. $2x + 3y > 3$ D. $x - 2y < -5$
2	Multiplicative inverse of 0 is	A. 0 B. 1 C. ±1 D. Does not exist
3	$\{x : x\varepsilon\ Z$ and $x < 1\}$ is	A. Singleton set B. A set with two points C. Empty set D. None of these
4	Question Image	A. Polynomial B. Equation C. Improper rational fraction D. Proper rational fraction
5	Question Image	A. -2 B. -1 C. 1 D. 2
6	$150° =$ _____	
7	Question Image	D. none of these
8	In one hour the minute hand of a clock turns through	
9	Question Image	
10	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
11	Question Image	
12	Question Image	
13	Question Image	
14	The solution set of the equation $\tan^{-1}x - \cot^{-1}x = \cos^{-1}(2 - x)$ is	A. [0, 1] B. [-1, 1] C. [1, 3] D. None of these
15	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition

16	Sin 90° = _____	A. -1 B. 0 C. 1 D. Undefined
17	If one root of the equation $x^2 - 3x + a = 0$ is 2 then a = _____	A. 0 B. 1 C. 2 D. 3
18	sin h x = _____	
19	If A∩B=B, then n(A∩B) is equal to	A. n(a) B. n(a)+n(c) C. n(c) D. None of these
20	In the expansion of $(x+y)n$ the coefficient of 5th and 12th terms are equal then n=	A. 12 B. n=14 C. 17 D. n=15