Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The centre of the conic $x2 + 16x + 4y2 - 16y + 76 = 0$ is	A. (0,10) B. (-8,4) C. (-8,-2) D. (1,1)
2	$4/\sqrt{49}$ is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
3	Question Image	
4	Question Image	
5	The distance between the points (0 , 0) and (1, 2) is	A. 5 C. 0 D. 3
6	$f(x) = x$ is	A. trigonometric function B. exponential function C. quadratic function D. identify function
7	Both the roots of the equation $(x - b)(x - c) + (x - c)(x - a) + (x - a)(x - b) = 0$ are always	A. Positive B. Negative C. Real D. None of these
8	If C is the mid point of AB and P is any point outside AB, then	
9	If $f(x) = -x^2$ then $f(-2)$ is	A. -2 B. 2 C. -4 D. 4
10	If $x < y$, $2x = A$, and $2y = B$, then	A. A = B B. A < B C. A < x D. B < y
11	Question Image	
12	If α, β are the roots of $ax^2 + bx + c = 0$ and $\alpha + h, \beta + h$ are the roots of $px^2 + qx + r = 0$, then h =	
13	Question Image	A. A,. B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
14	If 5,7 and 9 are A.Ms between a and b, then a and b is equal to	A. 2 and 12 B. 1 and 10 C. 3 and 11 D. -7 and 2
15	Which is not a half plane	A. ax + by < c B. ax + by > c C. Both A and B D. None
16	A monoid (G, *) is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these
17	Write the first four terms of the arithmetic sequence 5, 2, -1, ... is	A. 3 B. -4 C. 7 D. 1
18	If $\sin x + \sin^2 x = 1$, then the value of $\cos^{12}x + 3\cos^{10}x + 3\cos^8 x + \cos^6 x + 2\cos^4 x + \cos^2 x - 2$ is equal to	A. 0 B. 1 C. 2 D. $\sin^2 x$

19	Question Image	

| 20 | Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set X∪Y = 54, then number of elements in set X∩Y = | A. 4
B. 3
C. 2
D. 1 |