Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. A = C B. A = B C. B = C D. None of these
2	How many arrangements of the letters of the word MI SSI PPI, taken all together can be made?	
3	If one end of the diameter of the circle $2x^2 + 2y^2 - 8x - 4y = 2 = 0$ is (2 ,3), the other end is:	A. (2,1) B. (-2,1) C. (2,-1) D. (1,-1)
4	How many numbers are there between 103 and 750 which are divisible by 6	A. 125 B. 107 C. 108 D. 113
5	Question Image	
6	In set builder notation the set {0, 1, 2, ..., 100} can be written as	
7	(fog)′(x) =f′(g(x))g′(x) is derivative by	A. Chain rule B. Reciprocal rule C. Power rule D. Product rule
8	Question Image	
9	Question Image	A. 0 B. -1 C. 1 D. 2
10	Question Image	A. A natural number B. A rational number C. An irrational number D. A whole number
11	The domain of the function y = sin x , is	A. $-\pi/2 \leq x \leq \pi/2$ B. $\pi/ \leq x \leq \pi$ C. $-2\pi \leq x \leq 2\pi$ D. $-1 \leq x \leq 1$
12	A second degree equation in which coefficients of $x^2$and y^2 are equal and there is no product therm xy represents:	A. a parabola B. a circle C. an ellipse D. a pair of lines
13	Question Image	D. all are correct
14	The point R dividing externally the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ in the ratio $k_1: k_2$has the coordinates	
15	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
16	If $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$ are the vertices of a triangle then its centroid is	
17	Question Image	
18	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
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	If x - 1 is a factor of x4 - 5x2 + 4 then other factor is	A. (x + 2)2(x - 1) B. (x + 2)(x - 1)2 C. (x+2)(x2- x- 2) D. (x + 2)2(x - 1)2