Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $f(x) = ax^2$, and a>0, then the lowest point on the parabola is called.	A. Vertex of parabola B. Co-ordinates of parabola C. Roots of the equation D. Coefficient of the equation
2	Question Image	
3	The are of the circle centred at (1 , 2) and passing through (4 , 6) is:	A. 10π B. 25π C. 5π D. $25/2\pi$
4	A,G,H are in	A. A.P B. G.P C. H.P D. None of these
5	Question Image	
6	If for two events A and B , $P(A\cup B)=1$,then events A and B are	A. Certain events B. Mutually exclusive C. Complementary events D. Independent
7	Question Image	
8	Range of sin x is _____	A. $[-1, 1]$ B. R C. Negative real numbers D. None of these
9	Question Image	
10	An equation in which at least one term contains dy/dx, $d^2 y /dx^2$etc, is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation
11	The sum of the even coefficients in the expansion $(1 + x)^n$is	A. n^2 B. 2^{n-2} C. 2^{n-1} D. 2^n
12	The multiplicative inverse of x such that x = 0 is	A. -x B. does not exist C. 1/x D. 0
13	If A and B are two matrices such that AB = B and BA = A then A2 + B2 =	A. 2 AB B. 2 BA C. A + B D. AB
14	Which is not a half plane	A. ax + by < c B. ax + by > c C. Both A and B D. None
15	The 31 term of the A.P 5,2,-1.....is	A. -82 B. 82 C. 85 D. -85
16	Question Image	C. 0 D. 1
17	$i^2 =$	A. 1 B. 2 C. -1 D. 0
18	What is the conjugate of -6 -i	A. -6 +i B. 6 + i C. -6 -i

D. 6 -i

19	The probability of getting a number between 1 and 100 which is divisible by 1 and itself if only is	A. 1 / 4 B. 1 / 2 C. 3 / 4 D. 25 / 98
20	The consecutive terms of a progressions are 30, 24, 20. The next term of the progression is	