Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
2	if $Z_1 = 1+i$, $Z_2 = 2+3i$, then $|Z_2 - Z_1| =$	A. $\sqrt{3}\,i$ B. $\sqrt{7}$ C. $-2-i$ D. $\sqrt{5}$
3	Question Image	
4	The points of intersection of the line $y = 2x - 3$ and the circle $x^2 + y^2 - 3x = 2y - 3 = 0$ are:	A. two B. three C. less thean two D. not intersect
5	If x,y are two positive distinct numbers then	A. A>G>H B. A<G<H C. A=G=H D. None of these
6	The value of $\sin^{-1} 5/13$ is equal to	A. Cos 5/13 B. Tan⁻¹ 5/12 C. cos⁻¹5/12 D. 2 cos⁻¹ 4/5
7	The coefficient of the second term of $(a+b)^4$ is	A. 1 B. 9 C. 3 D. 5
8	Question Image	
9	Question Image	
10	Sin 50°-sin 70°+sin 10° is equal to	A. 1 B. 0 C. 1/2 D. 2
11	The point which is closet to the focus of a parabola is:	A. vertex B. Chord C. Focus D. Directix
12	3, 6, 12,.... is	A. A.P B. G.P. C. H.P. D. None of these
13	The set of all positive even integers is	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
14	$f(x) = \sin x + \cos^2 x$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
15	$\sin(\pi/2+\theta) = \underline{\quad\quad}$;	A. $\sin\theta$ B. $\cos\theta$ C. $-\sin\theta$ D. $-\cos\theta$
16	Every set is an improper subset of	A. Empty set B. Equivalent set C. Itself D. Singleton set
17	Question Image	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3

D. 1, 2, 0

18	$5x^3 + 3x -$ is a _____	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
19	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
20	Question Image	