

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	What is the value of $\cos(\cos^{-1} 2)$?	A. $\sqrt{2}$ B. $1/2$ C. undefined D. 0
2	Question Image	
3	In set builder notation the set $\{0, 1, 2, \dots, 100\}$ can be written as	A. $\{x / x \in \mathbb{N} \wedge x \leq 100\}$ B. $\{x / x \in \mathbb{W} \wedge x \leq 101\}$ C. $\{x / x \in \mathbb{Z} \wedge x \leq 101\}$ D. The set of first 100 whole numbers
4	The standard form of the quadratic function $f(x) = -x^2 + 4x + 2$, is	A. $(x-2)^2 + 6$ B. $-(x-2)^2 + 6$ C. $(x-3)^2 + 5$ D. $(x+4)^2 - 7$
5	Question Image	
6	The end points of the major axis of the ellipse are called its	A. Foci B. Vertices C. Co - vertices D. None of these
7	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
8	$\cot \theta = \sin 2\theta$ if $\theta =$	
9	Question Image	
10	If the domain of sequence is finite set then the sequence is called	A. geometric sequence B. infinite sequence C. finite sequence D. arithmetic sequence
11	Question Image	
12	Every set is an improper subset of	A. Empty set B. Equivalent set C. itself D. Singleton set
13	Every subset of a finite set is	A. Disjoint B. Null C. Finite D. Infinite
14	Which element is the additive inverse of (a, b) in Complex numbers?	A. (a, 0) B. (0, b) C. (a, b) D. (-a, -b)
15	Question Image	A. 12 B. 13 C. 14 D. 15
16	$x^4 - 3x^3 + 3x + 1 = 0$ is called _____	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
17	Question Image	
18	Question Image	
19	Question Image	A. 3 B. 2 C. 8

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 $\tan(\alpha - \beta) =$