

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	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
2	Which of the following is a scalar	A. displacement B. velocity C. acceleration D. density
3	The circle $(x - 2)^2 + (y + 3)^2 = 4$ is not concentric with the circle	A. $(x - 2)^2 + (y + 3)^2 = 9$ B. $(x + 2)^2 + (y - 3)^2 = 4$ C. $(x + 2)^2 + (y - 3)^2 = 8$ D. $(x - 2)^2 + (y + 3)^2 = 5$
4	a chord passing through the focus of a parabola is called a:	A. Focal chord B. Latus rectum C. Tangent D. Directrix
5	The maximum value of $\sin x + \cos x$ is	
6	The corner point of the boundary lines, $x - 2y = 2x + y = 2$ is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
7	Latus rectum = 4 x _____	A. focal distance of the vertex B. Chord C. Focus D. 1/2
8	Question Image	A. 0 B. 1
9	Number of conics is	A. 1 B. 3 C. 2 D. 4
10	One second is denoted by	A. 10^{-6} B. 1' C. 1" D. 1 rad
11	The solution of differential equation:	A. $dy/dx + y/x = x^2$ is : B. $4xy = x^4 + c$ C. $4x = x^4 + c$ D. $4y = x^4 + c$ E. $4x = x^3 + c$
12	Question Image	
13	$P \notin A$ means	A. P is subset of A B. P is an element of A C. P does not belong to A D. A does not element of P
14	Number of lines passing through three non-collinear points is	A. 2 B. 3 C. 1 D. 0 E. ∞
15	The n numbers $A_1, A_2, A_3, \dots, A_n$ are called an arithmetic means between a and b if $a, A_1, A_2, A_3, \dots, A_n, b$ is _____	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence

16 The number of proper subset of $A = \{a, b, c, d\}$ is

- B. 6
- C. 8
- D. 15

17 Question Image

18 Question Image

19 Question Image

20 How many terms of the A.P 3, 6, 9, 12, 15, must be taken to make the sum 108

- A. 8
- B. 6
- C. 7
- D. 36