

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\operatorname{Cosec} 60^\circ = \underline{\hspace{2cm}}$	
2	1.4142135... is _____	A. A natural number B. A rational number C. A prime number D. An irrational number
3	if $a_1 = 3$, $d = 7$ and $a_n = 59$, then the number of terms in A.P is	A. 7 B. 9 C. 11 D. 13
4	Question Image	
5	Question Image	
6	The exterior angle of the interior angle C of the quadrilateral whose vertices are A(5,2), B(-2,3), C(-3,-4), D(4,-5) is	A. 30° B. 60° C. 45° D. 90°
7	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
8	Find the geometric mean between 4 and 16	
9	Question Image	A. 0 B. U C. $u/2$ D. $\log u$
10	Question Image	
11	Question Image	A. 11 B. 61 D. 1
12	If $a^x = b^y = c^z$ and a, b, c are in G.P. then x, y, z are in	A. A.P. B. G.P. C. H.P. D. None of these
13	$x^2 + x - 6 = 0$ is	A. An equation B. An identity C. A polynomial D. None of these
14	The distance between the points A(3,1) and B(-2,-4) is	A. 5 C. 25 D. 10
15	Question Image	A. I and III quadrants B. II and III quadrants C. I and II quadrants D. II and IV quadrants
16	Which of the following is not a unit vector	A. $[1, 1, 1]$ B. $[0, 1, 0]$ C. $[0, 0, 1]$ D. $[1, 0, 0]$
17	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. $1/500$ B. $1/504$ C. $1/252$ D. $1/250$
18	Question Image	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
		A. Finite terms

19 For an arithmetic series to be convergent it is necessary that the series has

B. $d \neq 0$
C. Infinite terms
D. None of these

20 The sum of the coefficient in the expansion of $(a + x)^5$ is

A. 32
B. 16
C. 8
D. 5
