

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The position vector of a point (x, y) in xy plane is	D. none of these
3	$\cot \theta = \sin 2\theta$ if $\theta =$	
4	Question Image	A. square root function B. identity function C. linear function D. quadratic function
5	Question Image	D. none of these
6	Question Image	A. 0 B. 1
7	Question Image	
8	$\cos 3a =$ _____;	A. $3\sin a - 4\sin^3 a$ B. $4\sin a - 3\sin^3 a$ C. $3\cos^3 a - 4\cos a$ D. $4\cos^3 a - 3\cos a$
9	The mid point of the line segment joining the points (4,0) and (0,4) is	A. (4,4) B. (2,2) C. (-4,-4) D. (-2,-2)
10	Question Image	
11	Question Image	
12	The angle of elevation of the tops of two towers at the middle point of the line joining the foots of the tower are 60° and 30° respectively. The the ratio of the heghts of the tower is	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 3
13	$i^2 =$	A. 1 B. 2 C. -1 D. 0
14	If $a = 2i + 2j$, $b = 3i - j$ and $c = 4i + 5j$, the $3b - a - 2c =$	A. $-i - 15j$ B. $i - 15j$ C. $i - 3j$ D. None of these
15	Question Image	
16	$0! =$ _____	A. 0 B. 1 C. 2 D. Not defined
17	Question Image	A. N B. r C. 2r D. π
18	What is the conjugate of $-6 - i$	A. $-6 + i$ B. $6 + i$ C. $-6 - i$ D. $6 - i$
19	The value of $\sin^{-1} \frac{24}{25}$ is equal to	A. $\csc^{-1} \frac{25}{24}$ B. $\sec^{-1} \frac{24}{25}$ C. $2 \tan^{-1} \frac{4}{5}$ D. $\tan^{-1} \frac{4}{5}$

20 If a set S contains "n" elements then P (S) has number of elements

- A. 2^n
- B. 2^{2n}
- C. $2 \cdot n$
- D. n^2