

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If c is a constant number and if f is the function defined by the equation $f(x) = c$ for all values of x , then f is differentiable at every x and f' is defined by the equation $f'(x) =$	A. f B. 1 C. C D. 0
2	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
3	Question Image	
4	Question Image	
5	One minute is denoted by	A. 1° B. $1'$ C. $1''$ D. None of these
6	Question Image	
7	If the sum of two unit vectors is a unit vector the the magnitude of their difference is	A. $\sqrt{2}$ B. $\sqrt{3}$ C. 1 D. None of these
8	Question Image	A. $f(x) = x^2$ B. $f(x^2) = x$ C. $f(x) = x$ D. none of these
9	$n(n - 1) (n - 2) \dots (n - r + 1) =$ _____	
10	Sum of first n terms of an arithmetic series is	
11	Question Image	A. 0 B. -1 C. 1 D. 2
12	Question Image	A. 1 B. -1 C. $-1/2$ D. $1/2$
13	How many arrangements of the letters of the word PAKISTAN can be made	
14	Question Image	
15	The angle between the vectors $\underline{u} = [-3, 5]$ and $\underline{v} = [6, -2]$ is:	A. $\pi/2$ B. $-3\pi/2$ C. π D. None of these
16	Question Image	
17	A square matrix all of whose elements except the main diagonal are zeros is called a	A. Null matrix B. Singular matrix C. Symmetric matrix D. Diagonal matrix
18	Period of $\sin x$ is	
19	Question Image	
20	Domain of $2 \cos x$ is _____	A. $[-2, 2]$ B. R C. Negative real numbers D. None of these