

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	A matrix in which the number of rows is not equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
3	The exact value of $\cos^{-1}(-1) + \cos^{-1}(1) =$	A. π B. $-\pi$ C. $\pi/2$ D. $\pi/3$
4	The domain the function : $f(x) = x^2$ is given by	A. R B. Set of all non-negative Real numbers C. $R^{<\sup>-1</sup>}$ D. None of these
5	Question Image	A. $\cos x + c$ B. $-\sin x + c$ C. $-\cos x + c$ D. $\sin x + c$
6	Question Image	A. 30° B. 60° C. 45° D. None of these
7	If five triangles are constructed having sides of the lengths indicated below, the triangle that will NOT be a right triangle is	A. 8, 15, 17 B. 3, 4, 5 C. 12, 15, 18 D. 5, 12, 13
8	Name the property used in $4 + 9 = 9 + 4$	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
9	The value of i^{4n+1}	A. 1 B. -1 C. i D. $i^{<\sup>2</sup>}$
10	Question Image	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
11	How many signals can be given by 5 flags of different colours, using 3 flags at a time	A. 120 B. 60 C. 24 D. 15
12	Product of any n consecutive positive integers is divisible by	A. n B. \sqrt{n} C. n! D. None
13	If $f(x) = x^2 - x$ then $f(-2)$ is	A. 4 B. 6 C. 2 D. 0
14	The solution set of the equation $1 + \cos x = 0$ is _____	D. none of these
15	p, q, r and s are integers. If the A.M. of the roots of $x^2 - px + q = 0$ and G.M. of the roots of $x^2 - rx + s = 0$ are equal, then	A. q is an odd integer B. r is an even integer C. p is an even integer D. s is an odd integer
16	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these

17	General solution of $1 + \cos x = 0$ is	
18	If θ be angle between u, v and u, v determine the sides of a triangle then the third side opposite to angle θ has length	A. $ u+v $ B. $ u + v $ C. $ u-v $ D. $ u - v $
19	If $T = \{2, 4, 6, 8, 10, 12\}$, then	A. $T =$ (First six natural numbers) B. $T =$ (First six odd numbers) C. $T =$ (First six real numbers) D. $T =$ (First six even numbers)
20	Question Image	