

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $f(x) = (-x)^2$ then $f(-2)$ is	A. 0 B. 2 C. -4 D. 4
2	Which element is the additive inverse of (a,b) in Complex numbers	A. $(a,0)$ B. $(0,b)$ C. (a,b) D. $(-a,-b)$
3	General solution of $1 + \cos x = 0$ is	
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 5 C. -5 D. none
5	We also the system of non-homogeneous linear equations by	A. a and b B. b and c C. c and a D. a, b and c
6	The 7th term of the A.P 7,11,15, is	A. 24 B. 31 C. 26 D. 23
7	Multiplicative inverse of 0 is	A. 0 B. 1 C. +1 D. Does not exist
8	Which of the following is a factor of $x^3 - 3x^2 + 2x - 6$	A. $x + 2$ B. $x + 3$ C. $x - 3$ D. $x - 4$
9	For all positive integral value of $n, 3^n < n!$, when	A. $n > 6$ B. $n \leq 6$ C. $n \leq 11$ D. $n > 11$
10	Domain of $\cos \theta$ is	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
11	probability of a certain event is	A. 0 B. -1 C. 1 D. ∞
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. -i C. i D. 0
13	The period of $\tan x/7$ is	A. 3π B. 7π C. 15π D. 5π
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	For a square matrix A, if $A = A^t$, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\cot x + c$ B. $\tan x + c$ C. $-\cot x + c$ D. $-\tan x + c$
		A. $\tan^{-1} x$

17	$\sin^{-1} x =$	B. $\text{Cosec}^{-1} x$ C. $\text{Cosec } x$ D. $\text{cosec}^{-1}(1/x)$
18	The additive inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
19	If a tangent line touches the function $y = f(x)$ in more than one point then $y = f(x)$ is	A. Periodic B. Surjective C. Bijective D. Injective
20	Question Image <input type="text"/>	