

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The square matrix A is skew-symmetric when $A^t =$	A. -B B. -C C. -A D. -D
3	If $x < y$, $2x = A$, and $2y = B$, then	A. $A = B$ B. $A < B$ C. $A < x$ D. $B < y$
4	The distance of the point (2,3) from origin is	B. 5 C. 2 D. 3
5	Question Image	A. 3×1 B. 1×3 C. 3×3 D. 1×1
6	Coordinates of the focus of the parabola $x^2 - 4x - 8y - 4 = 0$ are:	A. (0,2) B. (0,1) C. (2,0) D. (1,2)
7	Question Image	
8	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these
9	$1, 1/3, 1/5, 1/7, 1/9, \dots$ is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
10	Which of the following sets is infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
11	If n is positive integers, then $2^n > 2n+1$, only when	A. $n \leq 3$ B. $n \geq 3$ C. $n \leq 2$ D. $n \leq 1$
12	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. $3/10$ B. $5/10$ C. $7/10$ D. $9/10$
13	Question Image	
14	$f(x) = x^3 - x^2 + 1$ is :	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
15	Second derivative of $y = x^9 + 10x^2 + 2x - 1$ at $x = 0$ is	A. 10 B. 20 C. 12 D. 1
16	Question Image	D. none of these
17	Let a_1, a_2, a_3, a_4 and a_5 be such that a_1, a_2 , and a_3 are in A.P., a_2, a_3 and a_4 are in G.P and a_3, a_4 and a_5 are in H.P. Then, a_1, a_3 and a_5 are in	A. G.P. B. A.P. C. H.P. D. None of these

18 Question Image

19 Domain of $\tan x$ is _____

20 Question Image

A. $1/2$

B. $1/3$

C. $1/4$

D. None of these