

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule for fractions D. Rule for quotient of fractions
2	Question Image	A. $P(A) + P(B)$ B. $P(A) - P(B)$ C. $P(A) \cdot P(B)$ D. $P(A) / P(B)$
3	The vertices of the ellipse $x^2 + 4y^2 = 16$ are	
4	If $c = 2i + j + k$ and $d = -1 + 4j + 2k$, then $[c-d] =$	A. $\sqrt{7}$ B. $\sqrt{41}$ C. $\sqrt{19}$ D. $\sqrt{(2+7)}$
5	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these
6	The point which divides the line segment joining the points (a, b) and (c, d) in the ratio 2 : 3 internally is	D. none of these
7	The corner point of the boundary lines, $x - 2x + 2y = 10$ is:	A. (8,1) B. (1,8) C. (6,10) D. (3,5)
8	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
9	A class contains nine boys and three girls, in how many ways can the teacher choose a committee of four?	A. 60 B. 460 C. 495 D. 272
10	For $n \in \mathbb{N}$, $2^n > n$ is to only when	A. $n \leq 2$ B. $n \leq 4$ C. $n \geq 4$
11	if $A = \{x \in \mathbb{Q} \mid 0 < x < 1\}$, the A is	A. Infinite set B. Finite set C. Set of rational numbers D. Set of real numbers
12	$\tan^{-1}x > \cot^{-1}x$ holds for	A. $x > 1$ B. $x \leq 1$ C. $x = 1$ D. All values of x
13	$xy = 2$ is:	A. a constant function B. an identity function C. an improper function D. implicit function
14	If n is any positive integer then $n! > n^2$ for	
15	The period of $\sin x/2 = \cos x/3$ is	A. 2p B. 12p C. 13p D. 7p
16	Question Image	
17	Question Image	
18	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these

19	Range of $3 \cot x$ is _____	A. $[-1, 1]$ B. $[-3, 3]$ C. \mathbb{R} D. None of these
20	System of linear equation is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above