

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The period $\sin^2\theta$ is	A. π B. 2π C. $\pi/2$ D. $\pi/4$
2	What is the value of $\cos^{-1}(1/2)$?	A. $\pi/3$ B. $\pi/4$ C. $3\pi/2$ D. $\pi/6$
3	The multiplicative inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
4	If $a > 0, b > 0, c > 0$, then the roots of the equation $ax^2 + bx + c = 0$ are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
5	Question Image	
6	Two coins are tossed twice each. The probability that the head appears on the first toss and the same faces appear in the two tosses is	A. $1/4$ B. $1/2$ C. $1/3$ D. $1/7$
7	The corner point of the boundary lines, $x-2y=2$ and $2x+y=2$ is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
8	If $\triangle ABC$ is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula
9	The probability of getting a number between 1 and 100 which is divisible by 1 and itself if only is	A. $1/4$ B. $1/2$ C. $3/4$ D. $25/98$
10	If $c = 2i+j+k$ and $d = -1 + 4j + 2k$, then $[c-d]=$	A. $\sqrt{7}$ B. $\sqrt{41}$ C. $\sqrt{19}$ D. $\sqrt{(2+7)}$
11	For all points (x,y) on x-axis	A. x is positive B. x is negative C. y = 0 D. y is negative
12	Which of the following is a quadrantal angle	A. 100° B. 200° C. 170° D. 270°
13	The nth term of a G.P. is	A. $a^{n-1}r^n$ B. $a^{n-1}r^{n+1}$ C. $a^{n-1}r^{n-1}$ D. $a^{n-1}r^{-n}$
14	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix
15	Every prime number is also	A. Rational number B. Even number C. Irrational number D. Multiple of two numbers

A. (0, 0, 0)

16	Trivial solution of homogeneous linear equation is	B. (1, 2, 3) C. (1, 3, 5) D. a.b and c
17	The points A(3,1),B(-2,-3),C(2,2) are vertices of an (an)	A. Right triangle B. Equilateral triangle C. Isosceles triangle D. Scalene triangle
18	$\sin h x =$ _____	
19	In natural logarithm the base is	A. 1 B. 0 C. 10 D. e
20	$x =$ _____ is in the solution of $2x - 5 > 0$	A. 0 B. 2 C. -2 D. 3