

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If A and B are matrices such that $AB=BA=I$ then	<p>A. A and B are multiplicative inverse of each other</p> <p>B. A and B are additive inverses of each other</p> <p>C. A and B are singular matrices</p> <p>D. A and B are equal</p>
3	If α and β be irrational roots of a quadratic equation, then	
4	Which of the vectors have opposite direction?	D. Both A and B
5	Question Image	
6	In the expansion of $(a + b)^n$ in every term the sum of the exponents of a and b is	<p>A. n</p> <p>B. $n + 1$</p> <p>C. $2n - 1$</p> <p>D. $2n + 1$</p>
7	Question Image	
8	The Domain of $f(x) = \log x$ is	
9	Question Image	<p>A. $\tan x$</p> <p>B. x</p> <p>C. $-x$</p>
10	If $K_1: K_2 = 1 : 1$ then the point P dividing the line is	<p>A. Midpoint</p> <p>B. Extreme left point</p> <p>C. Extreme Right Point</p> <p>D. P lies outside $k < 1$ and $k > 2$</p>
11	Question Image	
12	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivation of corn requires 3 hours per hectometer while cultivation of wheat requires 2 hours per hectometer. Working hours cannot exceed 240. If he gets a profit of Rs. 20 per hectometer for corn and Rs. 20 per hectometer for wheat. The profit function for the farmer is	<p>A. $P(x,y) = 20x + 15y$</p> <p>B. $P(x,y) = 2x + 3y$</p> <p>C. $P(x,y) = x + y$</p> <p>D. $P(x,y) = 3x + 2y$</p>
13	Question Image	
14	If in isosceles right angled triangle, one side is a then hypotenuse is	<p>C. a</p> <p>D. cannot be determined by given information</p>
15	Question Image	
16	Question Image	D. $-2-i$
17	If $0 < n < 1$, n is a rational number, the number of terms in the expansion of $(1 + X)^n$ are	<p>A. $n + 1$</p> <p>B. $2n$</p> <p>C. Infinitely many</p> <p>D. $2n + 2$</p>
18	Question Image	<p>A. A positive integer</p> <p>B. A negative integer</p> <p>C. A natural number</p> <p>D. An irrational number</p>
19	If $ab > 0$ and $a < 0$, which of the following is negative?	<p>A. b</p> <p>B. $-b$</p> <p>C. $-a$</p> <p>D. $(a - b)^2$</p>
20	Question Image	D. None of these