

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	D. None
3	Total number of terms in the expansion of $(a + b)^5$ + $(a - b)^5$ after simplification are	A. 3 B. 1 C. 4 D. 7
4	The multiplicative inverse of -1 in the set {1-, 1} is	A. 1 B1 C. <u>+</u> 1 D. 0
5	Question Image	
6	0 (Zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
7	Question Image	
8	Question Image	A. 0 B. 1 C1 D. 2
9	The Domain of $f(x) = \log x$ is	
10	3/2 is	A. An irrational number B. Whole number C. A positive integer D. A rational number
11	If $1 + \cos x = 0$, then $x =$	
12	The point (-5, 3) is the center of a circle and P(7, -2) lies on the circle. The radius of the circle is	A. 2 B. 13 C. 7 D. 8
13	Question Image	A. Unit matrix B. Diagonal matrix C. Nilpotent matrix D. Zero matrix
14	If the angle of a triangle are in the ratio 2:3:7, the triangle is	A. Obtuse B. Acute C. Right angle D. Isosceles
15	Question Image	
16	Question Image	D. None
17	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 pert 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	A. $P(x,y) = 20x + 15y$ B. $P(x,y) = 2x + 3y$ C. $P(x,y) = x + y$ D. $P(x,y) = 3x + 2y$
18	Complex roots of real quadratic equation occur in	A. Conjugate pair B. ordered pair C. reciprocal pair D. quadratic function
19	Question Image	
20	Which of the following is the equation of a line with slope 0 and passing through the point (4, 3)	A. X = 4 B. X = -4 C. Y = 3 D. Y = -6

