

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	What is a proper rational fraction?	D. All are proper rational fractions
2	The conic is a parabola if	A. e < 1 B. e > 1 C. e = 1 D. e = 0
3	In a school, there are 150 students. Out of these 80 students enrolled for mathematics class, 50 enrolled for English class, and 60 enrolled for Physics class. The student enrolled for English cannot attend any other class, but the students of mathematics and Physics can take two courses at a time. Find the number of students who have taken both physics and mathematics	A. 40 B. 30 C. 50 D. 20
4	Question Image	
5	If A and B are matrices such that AB=BA=I then	A. <div>A and B are multiplicative inverse of each other</div> B. <div>A and B are additive inverses of each other</div> C A and B are singular matrices D. A and B are equal
6	The sum of the interior angles for a 16 sided polygon is	A. 4 pie B. 14 pie C. 8 pie D. 2 pie
7	Question Image	D. None
8	The nth term in G.P 3,-6,12, is	A. 3(-2) ⁿ⁻¹ B. 2(-2) ⁿ⁺¹ C. 3(-2) ⁿ D. 4(-2) ⁿ⁻¹
9	Question Image	
10	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
11	Question Image	A. 2 B. 1
''	account mage	C. 0
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 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. $P(x,y) = 3x + 2y$
13	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
14	Every prime number is also	A. Rational number B. even number C. Irrational number D. multiple of two numbers
15	Sin(a + b) + Sin (a - b) =	A. Sin a Cos b B. Sin a Sin b C. Sin a + Cos b D. Sin a - 2 Cos b
16	Question Image	
		A. (-1, 2)
17	The range of inequality x + 2 > 4 is	B. (-2, 2) D. None
18	Write the first four terms of the arithmetic sequence if a ₁ = 5 and other three consecutive	A. 23, 26, 29, 32 B. 5, 8, 11, 14

10	terms are 23,26,29	C. 8, 11, 14, 17 D. None of these
19	Question Image	
20	Question Image	