

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	D. none of these
		D. Horie of these
2	If the 4th term in the expansion of $(px + x^1)^m$ is 2.5 for all $x \in \mathbb{R}$, then	
3	The area enclosed between the graph $y = x^2-4x$ and the x- axis is:	A. 20/3 B. 41/3 C. 32/3 D. 25/3
4	$(a,0) \times (c,0) =$	A. (0,ac) B. (ac, 0) C. (0,0) D. (a, c)
5	60° =	
6	Question Image	
7	Question Image	A. A B. A' C. U D. None of these
8	If $P = \{x/x = p/q \text{ where } p,q \in Z \text{ and } q \neq 0\}$, then P is the set of	A. Irrational numbers B. Even numbers C. Rational numbers D. Whole numbers
9	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
10	A circle which touches one side of a triangle externally and the other two sides produced is called	A. In-circle B. Circum cirle C. Escribed circle D. None of these
11	If $\sin{(\pi\cos{\theta})} = \cos{(\pi\sin{\theta})}$, then which of the following is correct?	
12	Question Image	A. 3x ² + 2 B. 3x ² + 2x + 3 C. x ³ + x ² D. none of these
13	Question Image	A. 0 B. 1 D1
14	Roots of the equation $x^2 + 7x + 12 = 0$ are	A. {3, -4} B. {-3, 4} C. {3, 4} D. {-3, -4}
15	The multiplicative inverse of (a,b) is	
16	If A = [aij]mxpand B =[aij]pxnthen order of BA is	A. m x n B. p x n C. n x m D. None of these
17	Question Image	
18	If a _n = 2n -3, write the first four terms	A3, -1, 1, 3 B. 1, 3, 5, 7 C1, 1, 3, 5 D. None of these
19	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivations 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. 15 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. $P(x, y) = 3x + 2y$

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A. Polynomial
B. Equation
C. Proper fraction
D. Improper fraction