

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. A.P. B. G.P. C. H.P. D. None of these
2	Question Image	
3	Question Image	A.
4	The latus rectum of the ellipse $5x^2 + 9y^2 = 45$ is	A. 10 / 3 B. 5 / 3 C. 3 / 5 D. 3 / 10
5	Question Image	
6	Question Image	
7	x is a member of the set [-1, 0, 3, 5] y is a member of the set {-2, 1, 2, 4} which is possible?	A. $x - y = -6$ B. $x - y \leq -6$ C. $x - y \geq -6$ D. None
8	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
9	Question Image	
10	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. $P(x, y) = 3x + 2y$
11	The sum of even coefficient in the binomial expansion is	A. 2^{n+1} B. 2^n C. 2^{n-1} D. $2n$
12	Question Image	
13	Question Image	
14	Question Image	
15	Question Image	B. $\ln(x^2 - x + 1) - x^4 + c$
16	$(n + 2) (n + 1)n$ in factorial form is	
17	Question Image	
18	Question Image	
19	The point _____ is in the solution of the inequality $2x - 3y < 4$	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
20	Question Image	A. $\cos 2x + c$ B. $-\cos 2x + c$ C. $\tan 2x + c$ D. $\cot 2x + c$