

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The point (x_1, y_1) lies outside the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ if	
3	If x, y, z are the pth, qth, rth terms of an A.P. and also of G.P., then x^{y-z} . y^{z-x} . z^{x-y} equals	A. xyz B. 0 C. 1 D. None of these
4	Any recurring decimal represents a	A. Irrational no B. Integer C. Rational no D. None of these
5	Area of the circle with ends of a diameter at (-3,2) and (5,-6)	A. 128π sq. units B. 64π sq. units C. 32π sq.units D. None of these
6	For≥ -2 , 1+3+5++(2n+5)	A. (n+2) ² B. (n-2) ² C. 2n+1 D. (n+3) ²
7	Question Image	A. 2x cos x2 B2xcosxsinx C. 2x Sin x2 DSin x2
8	The general term in the expansion of (a+x)n is	A. (r-1)th term B. (r+1)th term C. rth term D. none
9	If one root of the equation $ix^2 - 2(i + 1)x + (2 - i) = 0$ is 2 - i, then the other root is	Ai B. 2 + i C. i D. 2 - i
10	The vector k = [0,0,1] is called unit vector along:	A. x -axis B. y - axis C. z- axis D. None of these
11	The square of the distance between two points $P(x_1, y_1)$ and $Q(x_2, y_2)$ is	
12	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers B. Rational numbers C. All integers D. Irrational numbers
13	Question Image	
14	Question Image	A. A complex number B. A rational number C. A natural number D. An irrational number
15	Question Image	A. 30° B. 45° C. 60° D. 90°
16	f(x) = ax + b will be a constant function if	A. a = 1 , b = 1 B. a = 1 , b = 0
17	Question Image	
18	Let the sequence 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8, 8, 8, 8, where n consecutive terms have the value n, then 1025th term is	A. 2 ⁹ B. 2 ¹⁰ C. 2 ¹¹ D. 2 ⁸
19	The angle between the vectors 3i + i - k and 2i - i + k is	

 $\sqrt{2}$ + $\sqrt{3}$ + $\sqrt{5}$) = ($\sqrt{2}$ + $\sqrt{3}$ + $\sqrt{5}$: this property is called 20

A. associative property w.r.t addition B. commutative property C. Closure property w.r.t addition D. Additive identity