

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 3 C. 2-i D1
2	Question Image	A. <i style="text-align: center;">π</i> B. <i style="text-align: center;">π / 2</i> C. <i style="text-align: center;">π / 3</i> D. <i style="text-align: center;">π / 4</i>
3	if ag =19,ag=31 are the 6th and 9th term of an AP. and d=4 is the common difference, then 18th term of the sequence is	A. 65 B. 67 C. 71 D. 75
4	Question Image	A. 6x - 2 + c B. x ³ - x ² + x + c C. 6x - x ² + c D. 6x ³ - x ² + c
5	The set {Z\{0}} is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
6	The law of cosines reduces to a2 +c2 =b2 for	A. $\alpha = 90^{\circ}$ B. $\beta = 90^{\circ}$ C. $\gamma = 90^{\circ}$ D. $\alpha + \beta + \gamma = 180^{\circ}$
7	The 31 term of the A.P 5,2,-1is	A82 B. 82 C. 85 D85
8	(0,0) is in the solution of the inequality	A. x + y > 3 B. x - y > 2 C. 3x + 2y > 5 D. 3x - 2y < 2
9	Question Image	
10	Question Image	
11	Question Image	
12	aquantity is one that possesses both magnitude and direction.	A. Scalar B. Vector C. Segment D. None of these
13	If for the matrix A, $A^5 = I$, then $A^{-1} =$	A. A ² B. A ³ C. A D. None of above
14	The standard form of the quadratic function $f(x) = -x^2 + 4x + 2$, is	A. (x-2) ² +6 B(x-2) ² + 6 C. (x-3) ² +5 D. (x+4) ² -7
15	Domain of sec x is	
16	For an arithmetic series to be convergent it is necessary that the series has	A. Finite terms B. d<0 C. Infinite terms D. None of these
		A. 0

17	sec (-360°) =	B. 1 C. 2 D. 3
18	A square matrix A = [aij] is upper triangular when	A. cij = 0 B. bij = 0 C. aij = 0 for all i > j D. dij = 0
19	The domain of the principle cos function is	
20	Which of the following is the subset of all sets	A. Φ B. {1,2,3} C. {Φ} D. {0}