Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $d_1$is the distance between (0,0) and (1,2) and $d_2$is the distance between (0,0) and (-1,-2) the	A. d₁< d₂ B. d₁> d₂ C. d₁= d₂ D. none of these
2	Question Image	A. 0 B. 1 C. -1 D. 2
3	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function
4	Question Image	
5	If (0, 0) and (1, 0) are the end points of a diameter, then the equation of the circle is	
6	Question Image	
7	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
8	Question Image	
9	If the terminal rays of an angle falls on any axis then the angle is called	A. Allied angle B. Acute angle C. Standard position D. Quadrantal angle
10	an -an-1, $\forall n \in N \wedge n>1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
11	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
12	A square matrix all of whose elements except the main diagonal are zeros is called a	A. Null matrix B. Singular matrix C. Symmetric matrix D. Diagonal matrix
13	By expressing sin 125° in terms of trigonometrical ratios, answer will be	A. sin 65° = 0.9128 B. sin 55° = 0.8192 C. sin 70° = 0.5384 D. sin 72° = 0.1982
14	For any positive integer n	A. ABn = Bn A ⇔ AB = BA B. ABn = Bn A⇔ A,B are square matrices and AB = BA C. ABn = BnA⇔ A + B D. ABn = BnA ⇔ A and B are square matries
15	It is not possible to find the exact value of	A. π B. √9 C. ∛27 D. √1
16	The area of the rhombus whose vertices are A(0,0),B(2,1),C(3,3),D(1,2) is	A. 36 square units B. 3 square units C. 6 square units

		D. 18 square units
17	Question Image	
18	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. (-a,-b)
19	$Sec^{-1}x$ =	A. Cos⁻¹1/x B. cosec⁻¹1/x C. Cos⁻¹(-x) D. Tan⁻¹x
20	The axis of the parabola y^2= 4ax is	A. X = 0 B. Y = 0 C. X = y D. X = -y