

## NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
2	Sin(a + b) + Sin (a - b) =	A. Sin a Cos b B. Sin a Sin b C. Sin a + Cos b D. Sin a - 2 Cos b
3	Question Image	
4	Question Image	
5	Question Image	
6	Question Image	D2-i
7	If the sum of the roots of the equation $ax^2$ - $2x + 2a = 0$ is equal to their product, then the value of a is	A. 1 B. 2 C. 3 D. 4
8	Sin x + Cos x = 1 x =	
9	Question Image	
10	Which is not a half plane	A. ax + by < c B. ax + by > c C. Both A and B D. None
11	If any two rows (or any two columns) of a square matrix are inter changed, the determinant of the resultant matrix is	A. Same as the original determinant B. <div>Additive inverse of the original determinant</div> C. Both A and B D. Adj of the original matrix
		A. 10
12	Question Image	B. 20 C. 40 D. 26
13	The complement of set A relative to universal set U is the set	D. A - U
14	If A and B are matrices such that AB=BA=I then	A. <div>A and B are multiplicative inverse of each other</div> B. <div>A and B are additive inverses of each other</div> C A and B are singular matrices D. A and B are equal
15	Question Image	A. 1 B. 0 C2 D. 3
16	The equation of the line with gradient 1 passing through the point (h, k) is	A. Y = x + k - h B. Y = k/h x + 1 C. Y = x + h - k D. Ky = hx - 1
17	Question Image	
18	The radius of the circle $(x-1)^2$ + $(y+3)^2$ = 64 is	A. 8 C. 4 D. 64
19	Question Image	A. 1/2 B. 3/5 C. 4/5 D. 1

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A. 140 B. 130 C. 120 D. 110