

NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	Question Image	
4	Question Image	
5	Question Image	D. None of these
6	Question Image	A. Unit matrix B. Diagonal matrix C. Nilpotent matrix D. Zero matrix
7	The gradient of the line joining (1, 4) and (-2, 5) is	A. $\frac{3}{8}$ B. $-2\frac{2}{3}$ C. $-\frac{1}{3}$ D. 2
8	$\cos 315^\circ =$	A. 0.707 B. 0.5 C. 1 D. 0
9	Question Image	A. 0 B. -2 C. 1 D. 4
10	Question Image	D. None of these
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 C. Both A and B D. Adj of the original matrix
12	$\sin x + \cos x = 1$ x =	
13	Question Image	
14	The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is	A. 12 B. 1 C. 10 D. -10
15	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
16	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. Absolute
17	If $x < y$, $2x = A$, and $2y = B$, then	A. $A = B$ B. $A < B$ C. $A < x$ D. $B < y$
18	If the 19th term of A.P is 8 and the 4th term is 20, then the first term is	A. 20.2 B. 25.5 C. 27.5 D. 37.5
19	Question Image	
20	The number of ways in which we can courier 5 packets to 10 cities is	A. 2×5^{10} B. 5^{10} C. 10^5 D. 2^{10}

