NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	In general matrices do not satisfy	A. Commutative law w.r.t multiplication B. Associative law w.r.t addition C. Distributive law w.r.t addition D. Multiplication of a scalar with the matrix
2	Question Image	A. n = 3 only B. n <u>></u> 5 C. n <u>></u> 3 D. n < 5
3	120 degrees are equal to how many radians?	
4	Question Image	A. 15 B. 15 i C. -15 i D. -15
5	Question Image	A. 0 B. -25 C. 5 D. 45
6	Question Image	
7	Question Image	A. 1 B. 2 C. 3 D. 4
8	The number of ways in which we can courier 5 packets to 10 cities is	A. 2×5^0 B. 5^{10} C. 10^5 D. 2^{10}
9	Question Image	D. None of these
10	If ab > 0 and a < 0, which of the following is negative?	A. b B. -b C. -a D. $(a - b)^2$
11	Question Image	
12	Which of the vectors have opposite direction?	D. Both A and B
13	Question Image	
14	The number ways in which 5 distinct toys can be distributed among 3 children is	A. 3^5 B. 5^3 C. C_3^5 D. P_3^5
15	6 is	A. A prime integer B. An irrational number C. A rational number D. An odd integer
16	A die is thrown. What is the probability that there is a prime number on the top?	A. 1/2 B. 1/3 C. 1/6 D. 2/3
17	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
18	Question Image	A. Tan x B. X C. - x

| 19 | A standard deck of 52 cards is shuffled. What is the probability of choosing the queen of the diamonds | A. 1/5
B. 1/13
C. 5/52
D. 1/52 |
| 20 | In which quadrant is the solution of the equation sin x - 1 = 0 | A. II quadrants
B. II and III quadrants
C. III and IV quadrants
D. I quadrant |