

NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2 B. 1 C. 0
2	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
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
4	The values of n such that, in the binomial expansion of $(1 - x)^n$, co-efficient of x^2 , co-efficient of x^2 is 3, are	A. -2, -3 B. 2, -3 C. -2, 3 D. None of these
5	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. Polynomial B. Proper fraction C. Rational fraction D. Mixed fraction
6	$3/2$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
7	The gradient of the line joining (1, 4) and (-2, 5) is	A. $3/8$ B. $-2 \frac{2}{3}$ C. $-1/3$ D. 2
8	The equation of the normal to the circle $x^2 + y^2 = 25$ at(4, 3) is	A. $3x - 4y = 0$ B. $3x - 4y = 5$ C. $4x + 3y = 5$ D. $4x + 3y = 25$
9	If $ab > 0$ and $a < 0$, which of the following is negative?	A. b B. -b C. -a D. $(a - b)^2$
10	Which of the vectors have opposite direction?	D. Both A and B
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	$a + x$ is	A. A trinomial B. A binomial C. A monomial D. An equation
13	The associative angle of 280° is	A. 100° B. 10° C. 80° D. -80°
14	The number ways in which 5 distinct toys can be distributed among 3 children is	A. 3^5 B. 5^3 C. $3^3 \times 5^5$ D. $3^3 \times 5^5$
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A & G & H B. A & G & H C. A & G & H D. A & G & H
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	

17	An angle of one radian is equivalent to	<p>A. 90°</p> <p>B. 60°</p> <p>C. 67°</p> <p>D. 57°</p>
18	Question Image <input type="text"/>	<p>A. An equation</p> <p>B. Linear equation</p> <p>C. Rational fraction</p> <p>D. Identity</p>
19	Question Image <input type="text"/>	
20	The number of ways in which we can courier 5 packets to 10 cities is	<p>A. 2×5^0</p> <p>B. 5^{10}</p> <p>C. 10^5</p> <p>D. 2^{10}</p>