

NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	Question Image	
2	If a cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. Parabola B. Circle C. Hyperbola D. Ellipse
3	If c is a constant number and if f is the function defined by the equation $f(x) = c$ for all values of x , then f is differentiable at every x and f' is defined the equation $f'(x) =$ _____	A. f B. 1 C. C D. 0
4	Question Image	A. 1 B. 0 C. -2 D. 3
5	In 30,60,90 triangle, if the smallest side is 6 then the side opposite to the angle of 60° is	A. 12 B. 3 D. 6
6	Write the first four terms of the arithmetic sequence if $a_1 = 5$ and other three consecutive terms are 23,26,29	A. 23, 26, 29, 32 B. 5, 8, 11, 14 C. 8, 11, 14, 17 D. None of these
7	Question Image	
8	Question Image	
9	Question Image	A. 15 B. 60 C. 90 D. 20
10	Question Image	A. 1 B. 2 C. 3 D. 4
11	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. $1/52$
12	A relation in which the equality is true only for some values of the unknown variable is called	A. An identity B. An equation C. A polynomial D. Inverse function
13	Question Image	D. None of these
14	Question Image	
15	If a statement $S(n)$ is true for $n = 1$ and the truth of $S(n)$ for $n + K$ implies the truth of $S(n)$ for $S(n) = K + 1$, then $S(n)$ true for all	A. All Real numbers B. All integers C. Positive integers D. All complex numbers
16	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these
17	The complement of set A relative to universal set U is the set	D. $A - U$
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	A. 10 B. 20 C. 40

20

Question Image