NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	Total number of terms in the expansion of $(a + b)^5 + (a - b)^5$ after simplification are	A. 3 B. 1 C. 4 D. 7
2	The number of ways in which we can courier 5 packets to 10 cities is	A. 2 x 5⁰ B. 5¹⁰ C. 10⁵ D. 2¹⁰
3	Question Image	D. None
4	Question Image	
5	The gradient of the line joining (1, 4) and (-2, 5) is	A. 3/8 B. -2 2/3 C. -1/3 D. 2
6	Question Image	D. None of these
7	If $f_1(x)$ and $f_2(x)$ are any two anti derivatives of a function F (x), then the value of $f_1(x) - f_2(x)$ =	A. A variable B. A constant C. undefined D. infinity
8	The nth term of of A.P:1,5,9,15,..... is given by	A. 4n - 3 B. 4n + 1 C. 3n - 4 D. 4n + 3
9	Question Image	A. 2 B. 1 C. 3 D. 4
10	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
11	Question Image	A. 1 B. 2 C. 3 D. 4
12	A function F(x) is called even if	A. F(x) = F(-x) B. F(x) = F(-x) C. F(x) = -F(x) D. 2F(x) = 0
13	Question Image	
14	Question Image	A. An equation B. Linear equation C. Rational fraction D. Identity
15	Question Image	
16	If the angle of a triangle are in the ratio 2:3:7, the triangle is	A. Obtuse B. Acute C. Right angle D. Isosceles
17	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
18	Question Image	
19	Sin x + Cos x = 1 x =	

20	Every prime number is also	A. Rational number B. even number C. Irrational number D. multiple of two numbers