NAT I General Science Mathematics

Sr	Questions	Answers Choice
1	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
2	3/2 is	A. An irrational number B. Whole number C. A positive integer D. A rational number
3	If the order of A is n x m. Then order of kA is	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
4	If you looking a high point from the ground then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizon
5	One of the roots of the equation $2x^2 + 3x + n = 0$ is the reciprocal of the other, then n = ----------	A. Both A,B have the same number of columns B. Both A,B do not have the same order C. Number of col A is same as number of rows of B D. Number of rows of A is same as number of col of B
6	π/3 is	A. A positive integer B. A negative integer C. A natural number D. An irrational number
7	If ab > 0 and a < 0, which of the following is negative?	A. b B. -b C. -a D. (a - b)²
8	The sum of the ages of Nazish and his son is 56 years. Eight years ago. Nazish was 3 time as old as his son. How old is the son now?	A. m = n B. m≠ n C. mn = 1 D. mn = 0
9	The number of diagonals of a six sided figure are	A. 9 B. 6 C. 12 D. 3
10	Corola available in 5 models 8 colours and 3 sizes how many Corola must a local dealer have no hand in order to have one of each kind avialable?	A. 24 B. 120 C. 16 D. 39
11	The parametric equation of a curve are $x = t^2$, $y = t^2$ then	A. dy/dx =3t/2 B. dy/dx =t⁵ C. dy/dx =5t⁴ D. None
12	If Cosθ =0, Then θ=	A. nπ/2 B. (2n + 1)π/2 C. (2n - 1)π/2 D. (n ±1)π/2
13	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. 1-i√-3 / 2 B. -1+i√-3 / 2i C. -1+i√3 / 2 D. 1+i√3 / 2
14	If C^n_r, P^n_r = 24:1 then r = ?	A. 1 B. 2 C. 3 D. 4

15	If a and b are any two distinct negative real numbers and G-ab where A.G.H represent arithmetic geometric and harmonic means then	A. 1 B. ω² C. ω D. 0
16	If $Sin^{-1} x + cos^{-1} y = \pi$, then x and y are	A. Associative angles B. Complementary angles C. Reflex angles D. Supplementary angles
17	$Tan (\pi + Tan^{-1} x)$ =?	A. Tan x B. X C. -x D. Cot⁻¹ x
18	The statement that a group can have more than one identity elements is	A. True B. False C. Fallacious D. Some times true
19	The equation of two polynomials P(x)/Q(x) where Q(x) ≠ 0 with no common factor is called	A. 12 B. 1 C. 10 D. -10
20	r + 3 > 5 then which is true	A. r + 2 > 4 B. r + 2 < 4 C. r + 2 + 4 D. None