NAT I General Science

Sr	Questions	Answers Choice
1	Sin^{-1} √3/2 =?	A. 2π/3 B. π/2 C. π/3 D. v/5
2	The difference of two consecutive terms of an A.P is called	A. Constant of series B. Common ratio C. Common difference D. General term
3	In 30,60,90 triangle if the smallest side is 6 than the side opposite to the angle of 60° is	A. 12 B. 3 C. 6√3 D. 6
4	If 2 Sin x Cos 2 x = Sin x then?	A. X = nπ+ π/6 B. X = nπ +π/3 C. X = nπ +1 D. X = nπ + π/2
5	For which of the following ordered pairs (s,t) is s + t> and s- t < -3?	A. (3,2) B. (2,3) C. (1,8) D. (0,3)
6	The number of ways in which 5 distinct toys can be distributed among 3 children is	A. 3⁵ B. 5³ C. C⁵₃ D. P⁵₃
7	The angle a (0° < a< 180°) measured counterclockwise from positive x-axis to a non-horizontal straight line / is called the	A. Rotation B. Inclination C. Radian D. None
8	If Sin^{-1} x + cos^{-1} y = π, then x and y are	A. Associative angles B. Complementary angles C. Reflex angles D. Supplementary angles
9	The equation of the normal to the circle $x^2 + 2^2 = 25$ at (4,3) is	A. 3x -4y =0 B. 3x -4y= 5 C. 4x + 3y=5 D. 4x - 3y =25
10	A point of a solution region where two of its boundary lines intersect is called	A. Boundary B. Inequality C. Half plane D. Vertex
11	1+2+3+.....+n=?	A. n(n +1)/2 B. n +1/2 C. n(n +1)(2n +1)/6 D. n³
12	d/dx (√x) =	A. 2√x B. 1/√x C. 1/2√x D. None of these
13	The number of real roots in cube roots of 8 is ?	A. Zero B. One C. Four D. Infinite
14	If x lies in {0, 2π} and Cosec x = 2 then x =	A. π/ 6 and 5π/6 B. π +2nπ C. nπ D. 2π/3 and π/3
15	Sin 720° = _____	A. 1 B. 0 C. 2 D. 1/2

16	The point (-5,3) is the center of a circle and P(7,-2) lies on the circle the radius of the circle is	A. 2 B. 13 C. 7 D. 8
17	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
18	The average of first 100 integers is=	A. 50 1/2 B. 25 1/4 C. 100 D. 5050
19	If Z_1 = 1+i, Z_2 = 2+3i, then $\|Z_2-Z_1\|$=?	A. √3 I B. √7 C. -2-1 D. √5
20	The number of ways in which we can courier 5 packets to 10 cities is	A. 2 x 5° B. 5¹⁰ C. 10⁵ D. 2¹⁰