NAT I Computer Science Mathematics

Sr	Questions	Answers Choice
1	Which is an explicit function	A. y = x² +2x -1 B. x² +xy +y² =2 C. xy² -y +9/xy =1 D. All are
2	Which is not included in the domain of $Cos^{-1} x$	A. 0 B. 1 C. -1 D. 2
3	$P(x) = 2x^4 -3x^3 +2x-1$ is polynomial of degree	A. 1 B. 2 C. 3 D. 4
4	If f (x) = x/x^2- 4 then which is not included in the domain of f(x)	A. 0 B. -2 C. 1 D. 4
5	If $f(x) = x^3- 2x^2 +4x-1$, then f(-2) =?	A. 0 B. -25 C. 5 D. 45
6	Which of the following is the solution of $Cot^2x = 1/\sqrt{3}$	A. π/5 B. π/3 C. π/7 D. π/9
7	Which of the following is solution of $Tan^2 x = 1/3$	A. 7π/6 B. 5π/6 C. π/6 D. All
8	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
9	If 1 + Cos x = 0 then x =	A. π +2n π B. π + nπ C. π - nπ D. π/2
10	If θ= 60° then	A. sin θ = 1/2 B. tan θ = cot 30° C. θ = π/4 D. Sec θ =4