NAT I Engineering Mathematics

Sr	Questions	Answers Choice
1	In the figure PS is perpendicular to QR, if PQ = PR 26 and P8 = 24,then QR=	A. 10 B. 20 C. 40 D. 26
2	120° degrees are equal to how many radians?	A. π/3 radians B. 2π/3 radians C. π/4 radians D. π/2 radians
3	The principal value of $\sin^{-1}$ [√3/2] is	A. π/3 B. -π/3 C. 2π/3 D. 5π/3
4	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
5	Cos^{-1} (-x) =_____.	A. π +cos⁻¹ x B. π -sin⁻¹ x C. π +sin⁻¹ x D. π -cos⁻¹ x
6	Which of the following is not defined?	A. Arcsin 1/9 B. ArcCos (-4/3) C. Arctan 11/12 D. Arccot (-4)
7	AreCot √3 =?	A. π/2 B. π C. 2π D. π/6
8	Sin-1 (√2/2)=?	A. π/2 B. π/3 C. 3π/4 D. 2π
9	Sin^{-1} √3/2 =?	A. 2π/3 B. π/2 C. π/3 D. v/5
10	Tan (π + Tan^{-1} x) =?	A. Tan x B. X C. -x D. Cot⁻¹ x