

NAT I Computer Science Mathematics

Sr	Questions	Answers Choice
1	If a rectangle has an area $81x^2$ and length of $27x$. then what is its width?	A. $3x$ B. $9x$ C. $3x^{²}$ D. $9x^{²}$
2	Cse $\pi/3$	A. 2 B. 1 C. 0 D. $2/\sqrt{3}$
3	In 30,60,90 triangle if the smallest side is 6 then the side opposite to the angle of 60° is	A. 12 B. 3 C. $6\sqrt{3}$ D. 6
4	Domain of $\text{Cosec}\theta$ is	A. is $\mathbb{R}$ but $\theta \neq n\pi$ B. is $\mathbb{R}$ but $\theta \neq n\pi$ C. is $\mathbb{R}$ but $\theta \neq 2n\pi$ D. is $\mathbb{R}$ but $\theta \neq n\pi/2$
5	If 0 is not an integral multiple of $\pi/2$ then $\text{Cot}^4\theta + \text{Cot}^2\theta = ?$	A. $\text{Cosec}^{⁴}\theta - \text{Cosec}^{²}\theta$ B. $\text{Tan}\theta$ C. $\text{Cosec}^{²}\theta + \text{Cosec}\theta$ D. $\text{Sin}\theta \text{ Cos}\theta$
6	If in isosceles right angled triangle one side is a then hypotenuse is	A. $a\sqrt{2}$ B. $a/2$ C. a D. Cannot be determined by given
7	An angle θ is such that $\tan \theta = 1$ and $\cos \theta$ is negative then	A. $\text{Sin}\theta$ is positive B. $\text{Cos}\theta = \sqrt{2}/4$ C. $\cos\theta = -1$ D. $\sec\theta$ is negative
8	If $\sin \theta = 3/5$ $\text{Cos } \theta =$	A. $1/2$ B. $3/5$ C. $4/5$ D. 1
9	The associative angle of 280° is	A. 100° B. 10° C. 80° D. -80°
10	An angle of one radian is equivalent to	A. 90° B. 60° C. 67° D. $57^\circ, 18^\circ$