

NAT I General 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	Cosec $\pi/3$	A. 2 B. 1 C. 0 D. $2/\sqrt{3}$
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. $6\sqrt{3}$ D. 6
4	Domain of Cosec θ is	A. is R but $\theta = n\pi$ B. is R but $\theta \neq n\pi$ C. is R but $\theta \neq 2n\pi$ D. is R but $\theta \neq n\pi/2$
5	If 0 is not an integral multiple of $\pi/2$ then $\cot^4 \theta + \cot^2 \theta = ?$	A. Cosec 4θ - Cosec 2θ B. Tan θ - Tan 2θ C. Cosec 2θ + Cosec θ D. Sin θ Cos θ
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 0 is such that $\tan \theta = 1$ and $\cos \theta$ is negative then	A. Sin θ is positive B. Cos $\theta = \sqrt{2}/4$ C. cos $\theta = -1$ D. sec θ is negative
8	If $\sin \theta = 3/5$ 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° , 18°