

NAT I Computer Science Mathematics

Sr	Questions	Answers Choice
1	For any set X, $X \cup X$ is	A. 15 B. $15i$ C. $-15i$ D. -15
2	What is the conjugate of $-7 - 2i$?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. $\sqrt{53}$
3	If $Z_1 = \sqrt{-36}$, $Z_2 = \sqrt{-25}$, $Z_3 = \sqrt{-16}$, then what is the sum of Z_1 , Z_2 and Z_3 ?	A. $\sqrt{3} i$ B. $\sqrt{7}$ C. $-2 - 1$ D. $\sqrt{5}$
4	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_2 - Z_1 = ?$	A. $\sqrt{3} i$ B. $\sqrt{7}$ C. $-2 - 1$ D. $\sqrt{5}$
5	If $Z = (1, 2)$, then $Z^{-1} = ?$	A. (0.2, 0.4) B. (-0.2, 0.4) C. (0.2, -0.4) D. (-0.2, -0.4)
6	The value of x, and y, when $(x + iy)^2 = 5 + 4i$	A. $X=2, y=-1$ B. $X=-2, y=1$ C. $X=2, y=-i$ D. $X=2, y=2$
7	$\pi/3$ is	A. A positive integer B. A negative integer C. A natural number D. An irrational number
8	Every prime number is also	A. Rational number B. even number C. Irrational number D. multiple of two numbers
9	$3/2$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
10	$\sqrt{23}$ is	A. A rational number B. A irrational number C. An even integer D. A factor of 36