

NAT I Engineering Mathematics

Sr	Questions	Answers Choice
1	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
2	The set of the first elements of the ordered pairs forming a relation is called its	A. -x B. does not exist C. 1/x D. 0
3	The set $\{ \{a,b\} \}$ is	A. $\{X/X \in A \wedge x \in U\}$ B. $\{X/X \notin A \wedge x \in U\}$ C. $\{X/X \in A \text{ and } x \notin U\}$ D. $A - U$
4	Which of the following is the subset of all sets ?	A. $A \neq C$ B. $B = C$ C. $A = B$ D. $A \&\text{nbsp;}; \neq B$
5	In a school, there are 150 students. Out of these 80 students enrolled for mathematics class, 50 enrolled for English class, and 60 enrolled for Physics class. The student enrolled for English cannot attend any other class, but the students of mathematics and Physics can take two courses at a time. Find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 20
6	Multiplicative inverse of "1" is	A. 4 B. 3 C. 2 D. 1
7	The multiplicative inverse of x such that $x = 0$ is	A. -x B. does not exist C. 1/x D. 0
8	The complement of set A relative to universal set U is the set	A. X B. X C. ϕ D. Universal set
9	Let A, B, and C be any sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$ then	A. $A \neq C$ B. $B = C$ C. $A = B$ D. $A \&\text{nbsp;}; \neq B$
10	Given X, Y are any two sets such that number of elements in $X=28$, number of elements in set $Y=28$, and number of elements in set $X \cup Y=54$, then number of elements in set $X \cap Y=$	A. $-7 + 2i$ B. $7 + 2i$ C. $7-2i$ D. $\sqrt{53}$