

## **SNS** academy



## an International CBSE Finger Print School Coimbatore

## SUBJECT NAME -MATHEMATICS

1	as aRb if a is congruent to b, a,b∈ T.Then R is
	(A) reflexive but not transitive (B) transitive but not symmetric
	(C) equivalence (D) none of these
2	2. If a relation R on the set $\{1,2,3\}$ be defined by $R=\{(1,2)\}$ then R is
	(A) reflexive (B) transitive
	(C) symmetric (D) none of these
3	6. If f: $R \to R$ given by $f(x) = (3 - x^3)^{\frac{1}{3}}$ , find $f0f(x)$
	(A) $x^{1/3}$ (B) $x^3$ (C) x (D) $(3-x^3)$
4	Let $A = \{1,2,3\}$ . The number of equivalence relations containing (1,2) is
-	(A) 1 (B) 2 (C) 3 (D) 4
5	5. Let f:R $\rightarrow$ R defined by f(x) = $x^4$ . Choose the correct answer
	(A) f is one one onto (B) f is many one onto (C) f is one one but not onto
	(D) f is neither one-one nor onto
_	
6	5. Let $f: R \rightarrow R$ defined by $f(x) = 3x$ . Choose the correct answer
	(A) f is one one onto (B) f is many one onto (C)f is one-one but not onto
	(D) f is neither one-one nor onto
7	7. If $A = \{1,2,3\}$ , $B = \{4,6,9\}$ and R is a relation from A to B defined by 'x is smaller than y' The range of R is
	(A) {1, 4, 6, 9} (B) {4,6,9} (C) {1} (D) none of these
8	3. The relation $R = \{ (1,1),(2,2),(3,3) \}$ on $\{1,2,3\}$ is
J	(A) symmetric only (B) reflexive only (C) transitive only (D) an equivalence relation
9	2. Let $A = \{1,2,3\}$ and consider the relation $R = \{(1,1),(2,2),(3,3),(1,2),(2,3),(1,3)\}$ then R is
	(A) reflexive but not symmetric (B) reflexive but not transitive
	(C)symmetric and transitive (D)neither symmetric nor transitive
10.	Let us define a relation R in R as a Rb if a≥b .Then R is
	(A) an equivalence relation (B) reflexive, transitive but not symmetric
	(C) symmetric, transitive but not reflexive (C) neither transitive nor reflexive but
	symmetric