# ANSWER ON QUESTION #54796 – Math – Set Theory

**1.** Given that S = { a, b, c, d , e } and T = { a, c, e }, then one of these is untrue
(a) T is a subset of S
(b) $T \subseteq S$
(c) $S \neq T$
(d) $S \subseteq T$

**Solution:** (d) is untrue, because, for example, the element $d \in S$, but $d \notin T$

**2.** A = {x / x is an odd number between 5 and 21} is same as

 (a) A = {5,7,9,11,13,15,17,19}
 (b) A = {5,7,9,11,13,15,17,19,21}
 (c) A = {x : x is an odd number between 5 and 21}
(d) A = {7,9,11,13,15,17,19,21}

**Solution:** (a) and (d) are untrue.
In case (a) the number 21 is not belong to the set  A = {5,7,9,11,13,15,17,19}.
In case (d) the number 5 is not belong to the set  A = {7,9,11,13,15,17,19,21} , but  5 is an  odd number between 5 and 21.