02/08/xx Class- XI^sc (MATHS) K. Kanhaiya

Solve the following :-

(1) Given, $L = \{1, 2, 3, 4\}$
$M = \{3, 4, 5, 6\}$, $N = \{1, 3, 5\}$

Verify $L - (M \cup N) = (L - M) \cap (L - N)$

(2) If $X = \{1, 2, 3\}$, If n represent any member of X, write the following set containing all numbers represented by

(a) $4n$ (b) $n + 6$ (c) $\frac{n}{2}$ (d) $n - 1$

(3) Given that $N = \{1, 2, 3, \ldots, 100\}$, then write

(i) The subset of N whose elements are even no

(ii) The subset of N whose element are perfect Square Numbe

(4) Two finite sets have m and n elements. The number of subsets of the first set is 112 more than that of second set. The values of m and n are,

(a) 4, 7, (b) 7, 4 (c) 4, 4 (d) 7, 7

(5) In a class of 60 students, 25 students play Cricket and 20 students play tennis, and 10 students play both the games, Then the number of students who play neither is

(a) 0 (b) 25 (c) 35 (d) 45.

(6) If A is a finite set containing n elements, then number of subset of A is ____.