SETS HOMEWORK 2

- 1) Given that N={1, 2, 3,..., 100}. Then write
 - a) Subset of N whose all elements are odd numbers.
 - b) Subset of N whose all elements are perfect square numbers.
- 2) A, B and C are subsets of Universal Set if A = $\{2, 4, 6, 8, 10, 12\}$, B = $\{3, 6, 9, 15\}$, C = $\{5, 10, 15, 20\}$ and U is the set of all whole numbers, draw a Venn diagram showing the relation of U, A, B and C.
- 3) Find the number of elements in following sets :
 a) A = { x : x is positive integer less than 100 and divisible by either 7 or 11}
 b) B = { x : x is prime factor of prime number p}
 c) C = { x : x is multiple of 3 and 5}
- 4) Find the number of possible subsets for the following sets :
 - a) A = {1, 3, 7, 8}
 - b) B = { x : x is a letter of word TOMORROW}
 - c) C = { x : x is an even integer and $23 \le x \le 59$ }