## SETS HOMEWORK 2

1) Given that $N=\{1,2,3, \ldots, 100\}$. 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) $\mathrm{B}=\{\mathrm{x}: \mathrm{x}$ is a letter of word TOMORROW $\}$
c) $C=\{x: x$ is an even integer and $23 \leq x \leq 59\}$
