**ASSIGNMENT NO.-1(RELATIONS AND FUNCTIONS)**

**(MATHEMATICS)**

1. If form the set

2. Let be the relation on the set of natural numbers defined by

Find : (i) (ii) Domain of (iii) Range of

3. If find

4. Let be the relation on the set of all integers defined by is divisible by

Prove that

(i) for all

(ii) for all

(iii) for all

5. Let and Find the total number of relations from A into B.

6. Let and Find the total number of relations from A into B.

7. Find the domain for which the functions and are equal.

8. Is a function ?If this is described by the formula ,

then what values should be assigned to and ?

9. Let be defined by and be defined by .Find λ such

that for all

10. Find the domain of the real valued function .

11. Find the domain and range of the function .

12. Find the domain and range of the function