



NPTEL

NPTEL ONLINE COURSE

Discrete Mathematics

Functions

One-One Function - Example 3

Prof S.R.S. Iyengar

Department of Computer Science

IIT Ropar

Discrete Mathematics

Functions

One-One Function - Example 3



Prof. S. R. S. Iyengar
Department of Computer Science
IIT Ropar



Now let me use a more abstract example. Let me take simply ABCD and 12345 and create a one-one function here. Look our motive is not just to simply keep giving examples like Ram, Raj, Radha, Sita which makes sense in real life. We are also talking math. So we may have to enter abstraction in one stage or the other.

One - One function states that -

some elements can be left behind in the *co-domain*. But the elements in the *domain* should have a unique element in the *co-domain*.

IIT
Ropar



So here is a very nice question to ask is this a one-one function A going to 1, B going to 3, C going to 4 and D going to 2? Of course yes. 5, 6 is left behind. Doesn't matter. One-one function states that you can have some elements left behind in the co-domain. But the domain should have a unique value in the co-domain. It is an example of one-one function. Correct.