Course Name: A Level (1st Sem)

**Topic: Register Organization contd.** 

Subject: CO

Date: 15-05-20

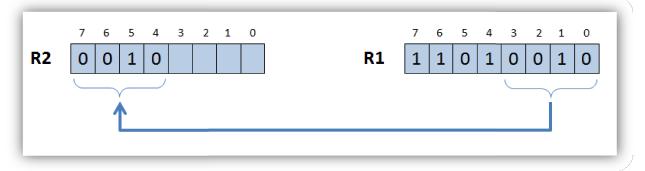
## **Register Transfers:**

Complete transfer: Complete Register Transfer can be denoted by the following way:
 Here content of Register R1 gets transferred to Register R2.

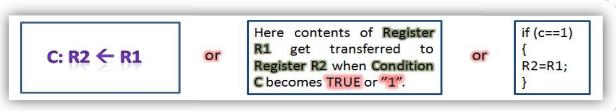


<u>Partial transfer:</u> Partial Register Transfer can be denoted by the following way: Here Oth to 3rd bits of Register R1 getting transferred to 4th to 7th bits of Register R2.

$$R2(4-7) \leftarrow R1(0-3)$$



3. <u>Conditional Register Transfer:</u> Conditions in Register Transfer simply depict that the transfer takes place only when the appropriate condition becomes TRUE. It can be denoted by the following way:



**For Ex.:** Consider the following expression-

T: R2  $\leftarrow$  R1 , R3(0-3)  $\leftarrow$  R4

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It is a conditional operation, Here, Two register operations:



are being performed simultaneously when T input equals to "1".

## **Assignments:**

- **a.** What is difference between a complete transfer and a partial transfer?
- **<u>b.</u>** Explain conditional transfer along with an example.