**ASSIGNMENT NO.1**

**BCA III Computer Organization & Architecture**

**Date of submission: 24/10/2021**

1. Write short notes on

* Instruction Cycle(with flow chart)
* Register Transfer Language
* Data transfer & data manipulation instruction

1. Explain a common bus system for four registers of 4 bit each. With diagram.
2. Explain Arithmetic, Logic & Shift micro operations with the help of examples or function table.
3. The 8 bit registers X, Y, Z and W initially have the following values-

X= 11001100 Y= 01011100 Z= 01010011 W= 11001100 after the execution of the following sequence of micro operations

X 🡨 X+W, X 🡨 X-Z , Y🡨 Y^Z Determine the new value in each register.

1. Explain Selective Set, Selective Complement, Mask & Insert operation. With example.
2. Explain basic computer registers.