**Additional Assignment-1**

**Date: 7.10.2022 Date of submission: 9.10.2022(Monday)**

Q1.Write the truth table, characteristic table, characteristic equation and excitation table for the following Flip flops.

1. RS Flip Flop

2. D Flip Flop

3. JK Flip Flop

4. T Flip Flop

Q2. A PN flip-flop has four operations: clear to 0, no change, complement, and set to 1, when

inputs P and N are 00, 01, 10, and 11, respectively.

(a) Tabulate the characteristic table.

(b) Derive the characteristic equation.

(c) Tabulate the excitation table.

(d) Show how the PN flip-flop can be converted

to a D flip-flop.