**DCA1205 Digital Logic**

**Assignment Set-I**

1. Distinguish between Half Adders and Full Adders.

2. List and explain different types of Flip-Flops.

3. Simplify the following Boolean function, $f(W,X,Y,Z)=∑m(2,6,8,9,10,11,14,15)$ using Quine-McClukey tabular method.

**Assignment Set-II**

4. Explain the working of Johnson Counter with appropriate truth table.

5. Explain the working principle of a Digital-to-Analog Converter (DAC).

6. Write a short note on MODEM.

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