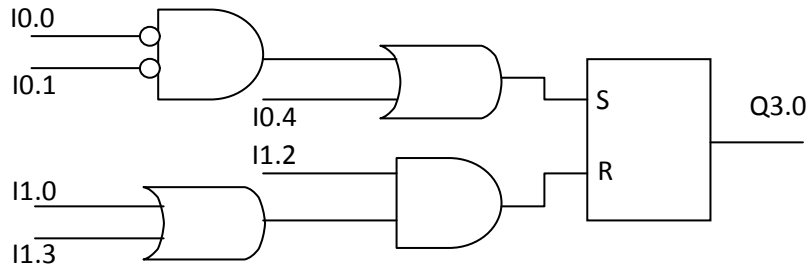
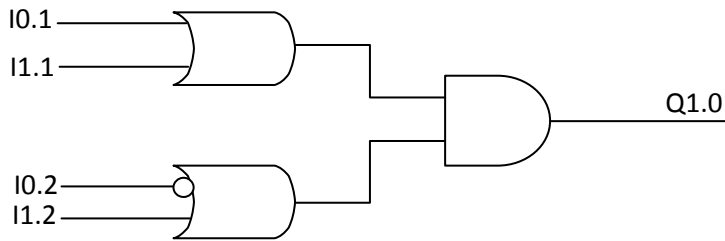


Course Code: EE512

Course Title: Automated Industrial Systems

Sheet #3

1- Draw the ladder diagram and write the statement list for the logical circuits shown below:



2- Write the statement list and draw the ladder diagram for the following Boolean expressions:

a) $Q1.0 = \overline{I1.3} + Q1.5 + (I1.7)(I1.1) + \overline{Q1.1}$

b) $Q1.1 = \overline{Q1.5} + \{(I1.3 + Q1.1)(I2.2) + I1.1\}$

3- Write the statement list of the following system:

