# Department of Electronics & Communication Engineering

## Faculty of Engineering, Integral University, Lucknow

Assignment  Sheet  1

Mechatronics (IEME-024)

Faculty :  Shrish Bajpai

Problems :  05

Due Date :  August 25, 2014

1. Convert the 4 digit binary code to 4 digit gray code.

2. Do the minimization with any one type of multiplexer. $F(A,B,C,D) = \Sigma(0,1,2,3,7,8,9,10,14,15)$

3. Minimization of the following with K-Map method. $F(A,B,C,D,E) = \Sigma(0,1,2,5,6,7,12,13,14,15,21,22,24,25,31)$

4. Covert $(25.52)_6$ into binary, octal & hexadecimal.

5. Write application of Mechatronics in detail.