University of Engineering and Technology, Lahore
Department of Electrical Engineering

EE272 – Digital Systems
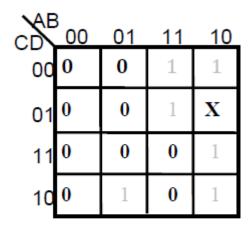### Homework 3

Issue Date: 03 Sep 2019 (Thu)
Due Date: 07 Oct 2019 (Mon - 2pm)

*** you need to do the homework *by hand*. ***

Please note late submission will be graded zero, no relaxation in submission for anyone.

1. Find out the logic function **G (using SOP) and G' (using POS).**

   Draw *logic circuit* for both cases.

   G'(A, B, C, D) =

   G(A, B, C, D) =

2. Find the value of **F.**

   $F(A, B, C, D, E, F) = \sum (m_0, m_2, m_8, m_9, m_{10}, m_{12}, m_{13}, m_{16}, m_{18}, m_{24}, m_{25}, m_{26}, m_{29}, m_{31}, m_{32}, m_{34}, m_{35}, m_{39}, m_{40}, m_{42}, m_{43}, m_{47}, m_{48}, m_{50}, m_{56}, m_{58}, m_{61}, m_{63})$

   F=?