National University of Computer and Emerging Sciences, Lahore Campus

Course:	**Digital Logic Design**	**Course Code:**	EE227
Program:	**BS(Computer Science)**	**Semester:**	**Fall 2018**
Duration:	**25 Minutes**	**Total Marks:**	**10**
Paper Date:		**Weight:**	
Section:	**A**	**Page(s):**	
Exam:	**Quiz-1**	**Roll Number**	

Show your working otherwise no credit will be given.

Q1) Express the boolean function in Sum of Min terms. z'+xy'+x   **(2 marks)**

Q2) Simplify the following expression and draw its truth table and circuit diagram. [2 +1 Marks]
A'(A + B) + (B + AA)(A + B')

Q4) Convert this hexadecimal number into base 7. Show working.
$(9A3.F)_{16}$ **(2 marks)**

Q5) Prove by using algebraic identities that LHS=RHS, w+yz = (w+y) (w+w')
 (w+z)
(3 marks)