

EE227 – Digital Logic Design

Assignment 6

Spring 2020

Instructor Name: Engr. Amir Zahoor

Instructions for Submission:

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- Partially or fully **copied assignments** will be marked as **zero**.
- You should submit only one PDF document and all text should be hand written. Equations, figures can only be hand written (all figures/equations can be pasted as images inside that document).
- Only **handwritten** solution.
- Late submissions are not allowed.
- Viva of any student can be conducted by the instructor after conducting an online exam in case of any doubt.
- You can submit your assignment **during Google Classroom only**.

Question Number 1

Design and implement 2x1 MUX for the following function :

$$F = \sum(1,3,4,11,12,13,14,15)$$

Question Number 2

Design and implement

a) 8x1 MUX

b) 4x1 MUX

c) 2x1 MUX

for the following function :

$$F = \sum(2,4,5,6,8,9,13,14)$$

Question Number 3

Design and implement 8x1 MUX for the following function:

$$F = \sum(1,3,4,11,12,13,14,15)$$

Good Luck