Islamabad Campus

Department of Electrical Engineering Program: B.E. (Electrical) Semester – Spring 2016

EL-322 Digital Signal Processing

Question # 1:

A linear shift invariant system has a unit sample response given by:

$$h(0) = -0.01$$

$$h(1) = 0.02$$

$$h(2) = -0.10$$

$$h(3) = 0.40$$

$$h(4) = -0.10$$

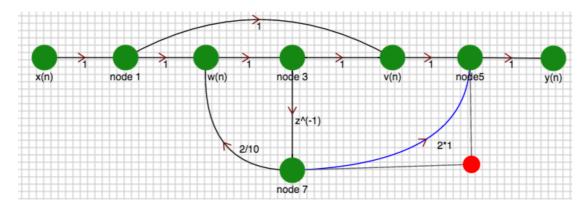
$$h(5) = 0.21$$

h(6) = -0.01

Draw a signal flow graph for this system that requires the minimum number of multiplications.

Question # 2:

Consider the filter structure shown below and find the system function and the unit sample response of this system:



Good Luck