(25)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
ECE 466 MidTorm 1
Linson Time Inv Static Causal Starle 1) of y [n] = x[n] in y y[n] = 2n x[n] + nx[n+i] (-1) X X
$y [r] = (a_1(2\pi \times (r))) \times$
b) $X(h) = \omega(\Xi h)$; $X(t) = \omega(St)$ $F_5 = 100 \text{ Hz}$
$\frac{100}{100} = \frac{1}{2} = \frac{50}{2}$ $\frac{100}{100} = \frac{1}{2} = \frac{1}{$
- Sampling a unit step function technically requires an infinite rate. V
- Nyghist Frequency = Mar Freq but the Max prequency of unit step is infinity. ? - We must choose a compling rate which suits on intended design.
d) $x[n] = \{3,1\}$; $x[n] = \{2,1,0\}$
$y[n] = \frac{56}{56}, -1, \frac{2}{5}$ $x[n] *h[n] = y[n] (-1)$











