- Liet $\chi(m) = 24,5,63$ and $\chi_2(n) = 21,213,143$ calculate linear convolution wring Circuloz Convolution. [3M]
- Let x(m) = {1,0,1,0,1,0,1,0} calculate DFT.[5M]
- 3. a) check whither below system is causal or not justly

 y(n+u)= x(n+3)+x(n+2)+y(n+3)+x(n-4)[2m]
 - b) Check whether below system is LTI of not, Just by [nw]
 - (i) y(n) = x(n-2) + y(2n-1)(ii) y(n) = x(n-1) + y(n-1) + 4
- 4. A sisnal has amplitude of -5 to 5. If maximum quantization error should be less than 0.1, how grantization? (3 m) many bits one required for quantization?
- State and prove convolution property of Favier [3"
- 6. a) state whether below Signals are poriodic ornot justify (i) 2(n) = cos (2n+t/2)
 - (ii) 2(n)= u(n)+u(n-1)
 - (iii) x(m) = 8(m)
 - b) state whether below Signals one Grenzy or Power or neither $\chi(n) = -a^n u(-n-1)$ 25