



	and the second of the second o
2)	Unit Step Signal: [U(n)]
	Casual Signal
	u(n)
	The state of the s
	-1 0 1 2 3 - 0 1 AND STORE TO 10 10 10 10 10 10 10 10 10 10 10 10 10
	No.

$$U(n) = \int_{0}^{\infty} L \quad n \ge 0$$

9(n) 12 3 - n

 $91(n) = \begin{cases} 0 & n \geq 0 \\ 0 & \text{otherwise} \end{cases}$

A NOTE: - when the -ve side of signal is 0, that signal is called casual' signal.

4)	Siruspidal Signal:
ヺ	Consider a CT signal !-
	$x(t) = (o(at) \rightarrow 0)$
	where I is snalog signlor Frequency is Hetzly that I rad I sec.
	Such that $SZ = 2\pi F$
	and Fis in Mery (NZ)
	$\rightarrow F=1/2 \text{ for any } 1/2 \text{ or } 1/2 $
	h n n n - F= 21/2-
	NUMU DE SIN I TENDR
	[E:1]
	T TO THE THE REST GROWN ()
, in	
	By sampling i-
	we put $t = nTs = n$ $C = Ts = 1$
	we put $t = nTs = n$ $C = Ts = 1$ Fs Fs
	In eg 1:
	$x(nT_s) = cos(2\pi F_0)$
	Fs
	$x(n) = cos \left(2\pi (F) n\right)$
	Fs.)
,	$\chi(n) = \omega(2\pi + n) \qquad (f = F)$
	FS
9.3	$n(n) = cos(\omega_n)$
	f - F-i M2 (Argular Fleg is N2)
	.'- DT Sinuspolial Signal !- [] FS -SHZ] (Sorypling Flag in HZ)
	(n(n)= cos(wn) Digital Flog(No unit)
	The state of the s
	where w is digital to Angular frequency in radion such that w = 276 , where f is digital breezes with no writ-
	white + is all will with the wind

*	NOTE:
7	So grad I sec F Hz Analog Frequency wo grad f No unit -> Digital Frequency.
	we had I No wit -> Digital Frequency.
114	
7	f = F
	Fs
7	Multiply by 217
*	$2\pi f = 2\pi F$
	Fs
- in	W= S2 - had/s
-5	Fs -> Hz
	$\omega = SLTs$
	= had x s
	5
	(w=had)