Pulse Modulation In this type of Modulation, the Cassies is not a Continuon wave but a pulse thain Pulse Generalos signal C Pulse Tulse chasactesotis: Pulse Width - talling (Thailing and) edge -centre of the Pulse (leading - Amplitude of Pulse Jevel ob Pulse Pulse Modulation Pulse Digital Pulse Analog Modulation. Mo do lation

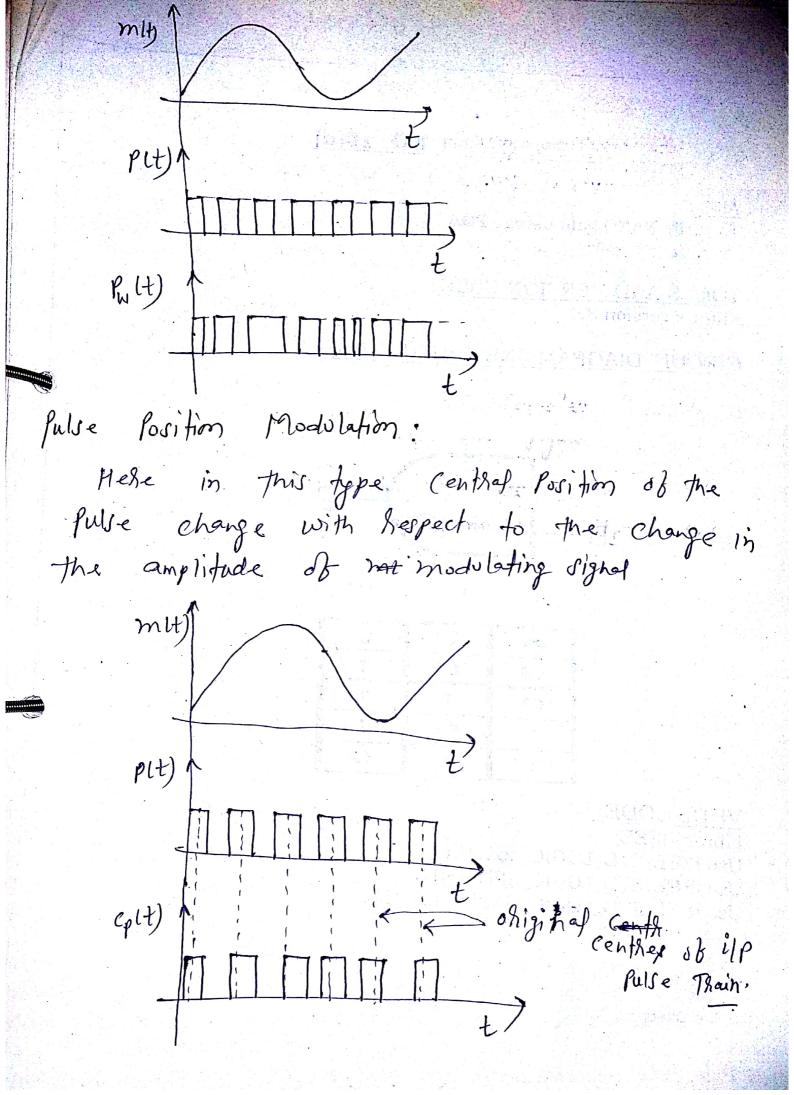
(0

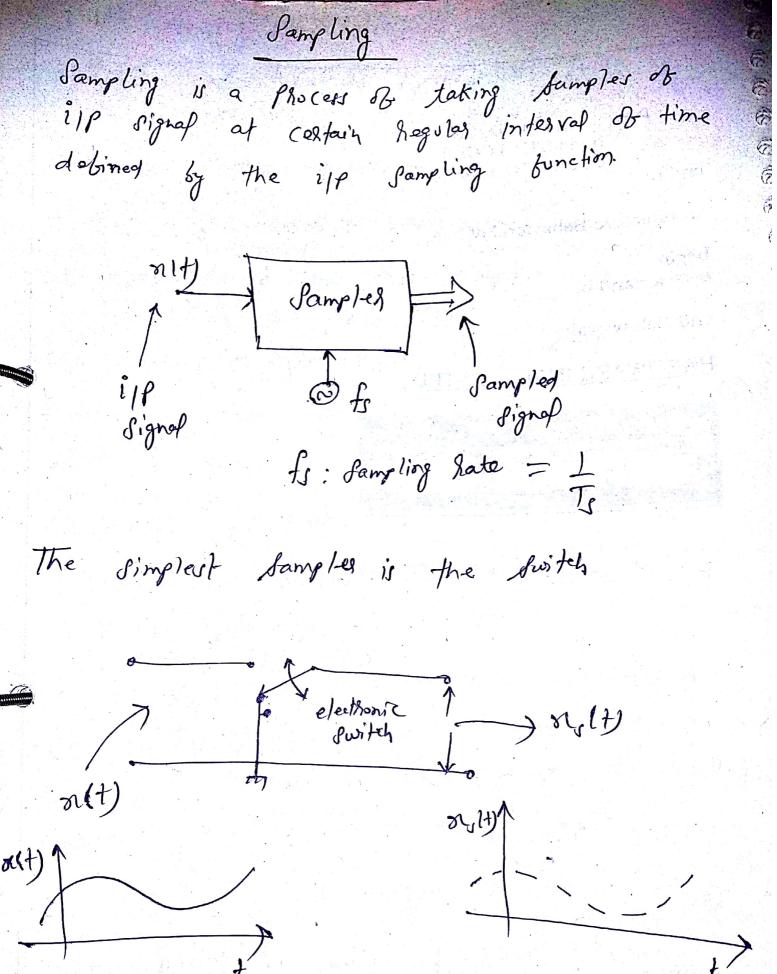
(0)

(9

0

(6





Pulse Analog Modulation: Under this type of modulation Pulse Characterstici changes in accordance with The modulating signal mit). These characteratics may be: 1. Amplitude of the Pulse (Ap) 2. Width of the Pulse (Wp)
3. Central Position of the Pulse (Cp) Hence on the lasis of this, these can be following type of Pulse Analog Modulation: .a) Pulse Amplitude Modulation (PAM) 3), Pulse Width Modulation (PWM) c). Pulse Position Modulation (PPM) 100 it. Ap changes w.s.t. the metantaneous change in the amplitude of modulating signal then it is called as Pulse Amplitude Moduletid (PAM) e.g. $A_p = f(m(t))$ (4.1) Here width a centre of Pulse Remains bix as that of the original Pulse thain

Clecksonic Switch Samples it Can also se Realised as electronic 0 T: duration of Pulse (4.3) Tolt) = nity sity old is the sampling of switching bunction and 9 slt) = 60 + \$\frac{50}{2} 2 cn 6 s 2 m fst (4.4) OS in terms of exponential bunchion sit) = Sicn e sinnfit equation (4.4) equation (4.3) Coin be written as nolt) = Conit + 2 quit) Go 2 Titit + 2 (2nt) Cos 3 Titit +2 C3217 60 617 fit +-

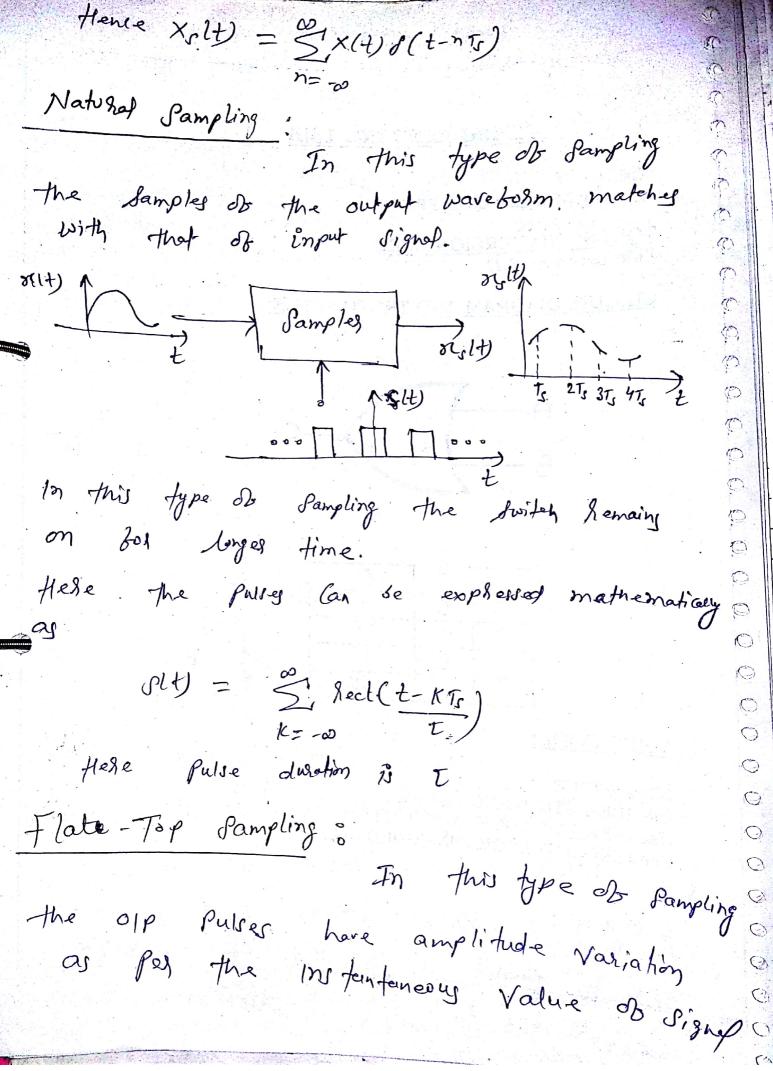
(E)

Type of Sampling fampling Can be of following types: 9). Instantaneous Sampling 3) Natural Sampling C) Flat-Top Sampling 1). Instantaneous Sampling?
Here this type of Sampling is done at a bastes sate & of at the . Instantants of Sampling nut)

Samples ns 14)

nut)

ood 11... $S(t) = \int_{-\infty}^{\infty} S(t-n\tau_e) = Sampling$ bunching 0 (3) 0 0 = n(t) olt) (3) $n(t) \stackrel{\circ}{\leq} s(t-n_{b})$ 0 (5) = 5 x1+10(t-ntg)



But the Pulse amplitude Remain Constout bul the duration of pulse. Xelt) Flat-Top Samples Sampling burnetion of the Flat - Top Signal Generatos. m1t)

Golden Constty Here G,: Sampling Switch Gz: Dump Switch G, a Gz ale specially designed Switch bayes FET P technology, Characterstis of Pacy switches that G, is having to very 600 Ion' Resistance & very high 'off' hesistance

