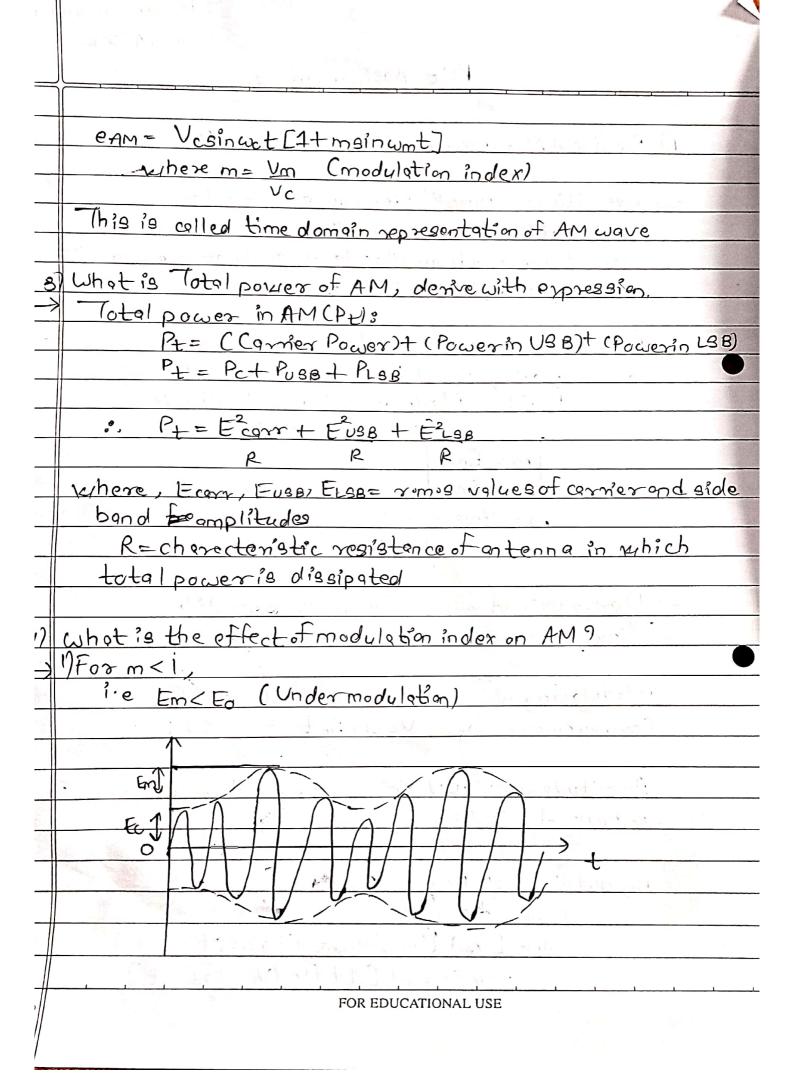
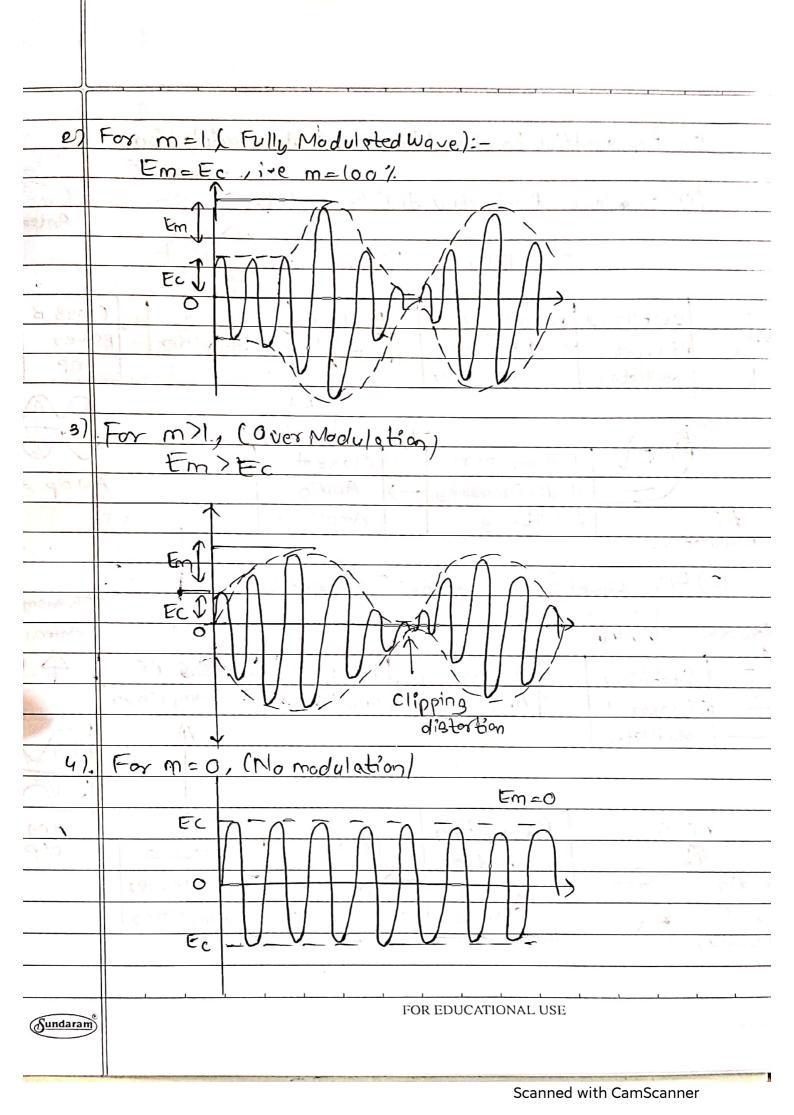
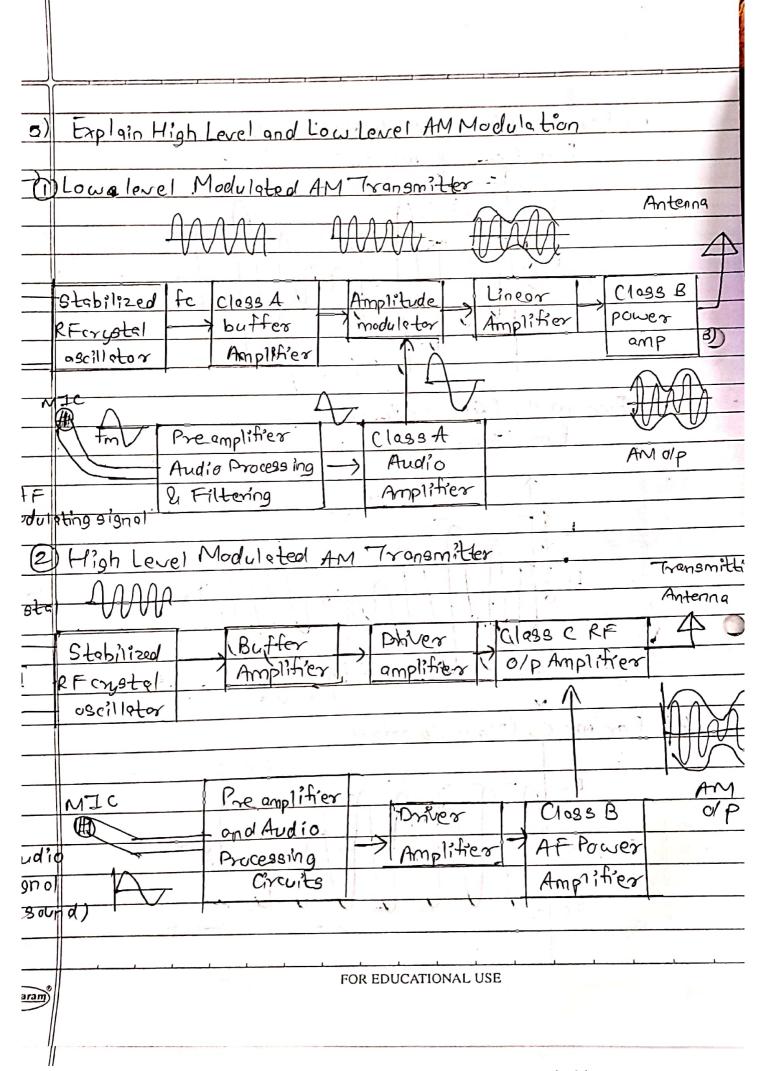
PCE Assignment 2

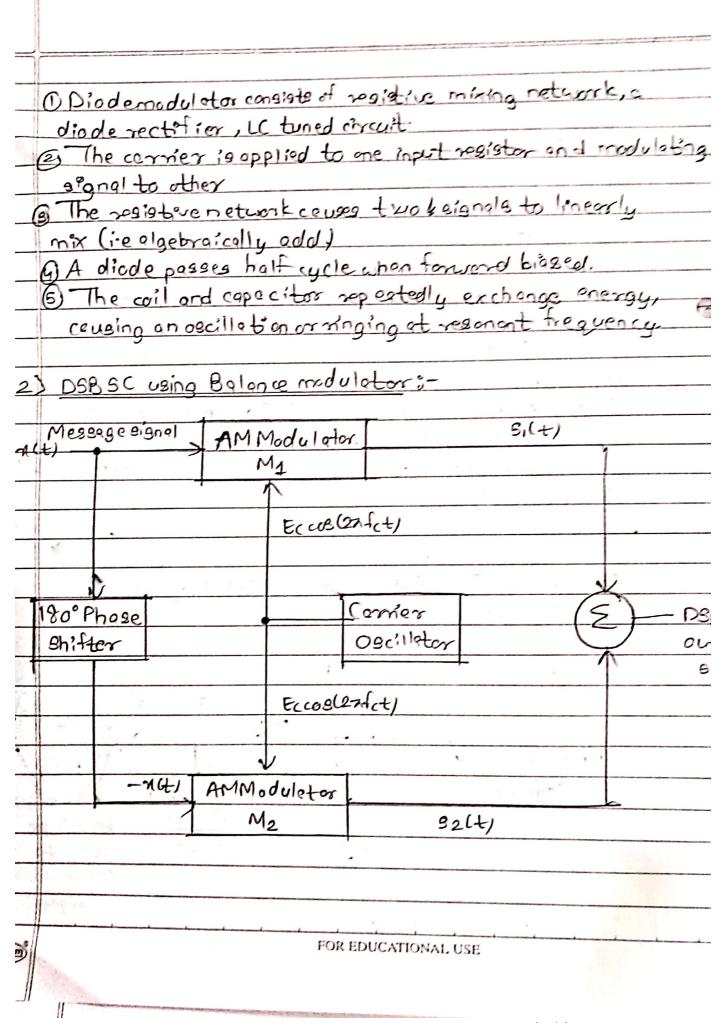
1)	Define AM and mode lation index of AM?
1	Then my Von Condulation and or
- 2)	Definition - Amplitude modulation is a technique of
	modulation, in which amplitude of carmer varies in
	accordance with amplitude of modulating signal, keeping
	frequency on d phase constant.
	end) MAN (be on to to)
W nie	Modulation index (m) is defined as the retio of emplitudes
	of modulating signal to the corner signal.
	M. I = Modulating Signal Amplitude
	Carrier Signal Amplitude
	m= Em
o a h	or own room to sail Ecolor again said sangel and amorted
	m = Vmax - Umin coholismon had
d	der - someten ment miner miner street = 9
	total on a dispersage is all my malpetal
2	Derive the mathema tical expression of AM.
=	Time domain expression of AM wave-
	i mesilia
	Modulating signal = em = Umsinamt - 1
	Carrier signal = ec = Vesin wet - 0
	Amplitude modulated signal = eAM = Asinwet - 3
	where A = Vctem
	. = Vc+ (Vmainwmt) - 9;
	By putting egn @ into @,
	PAM = Abin wet
	eAM=[Vc+(Vmsinumt)] sinuct
	= Vc sinwet (1+ (Vm/Vc sin wmt))
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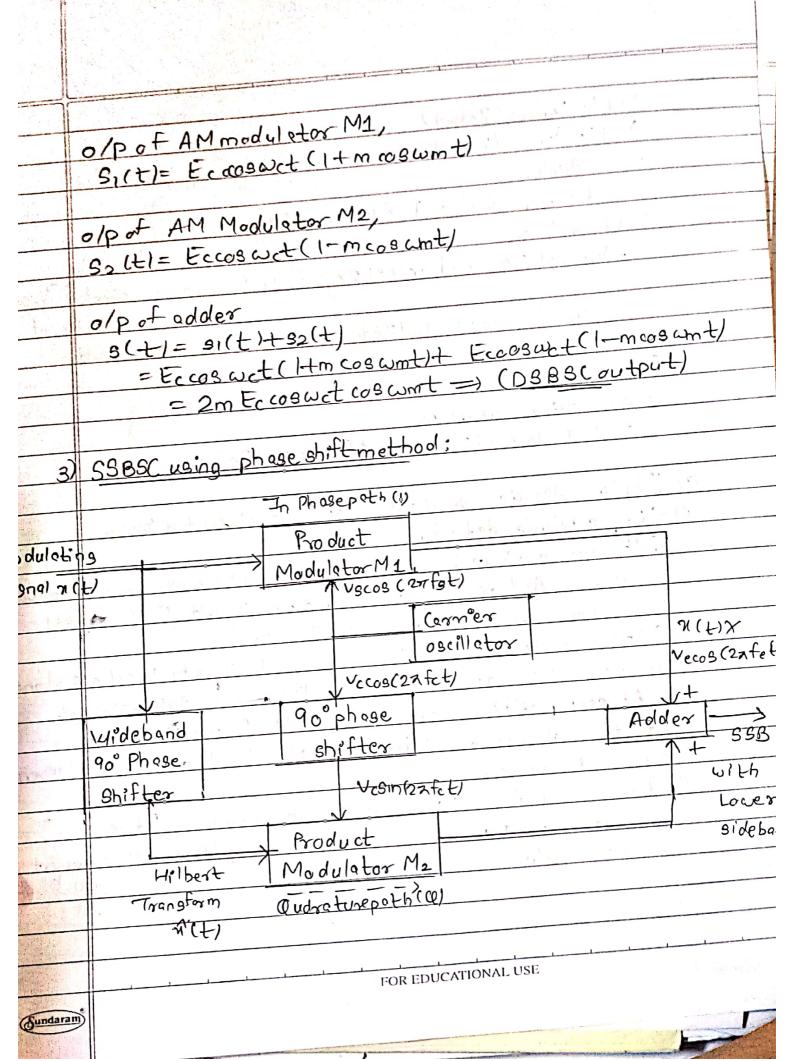




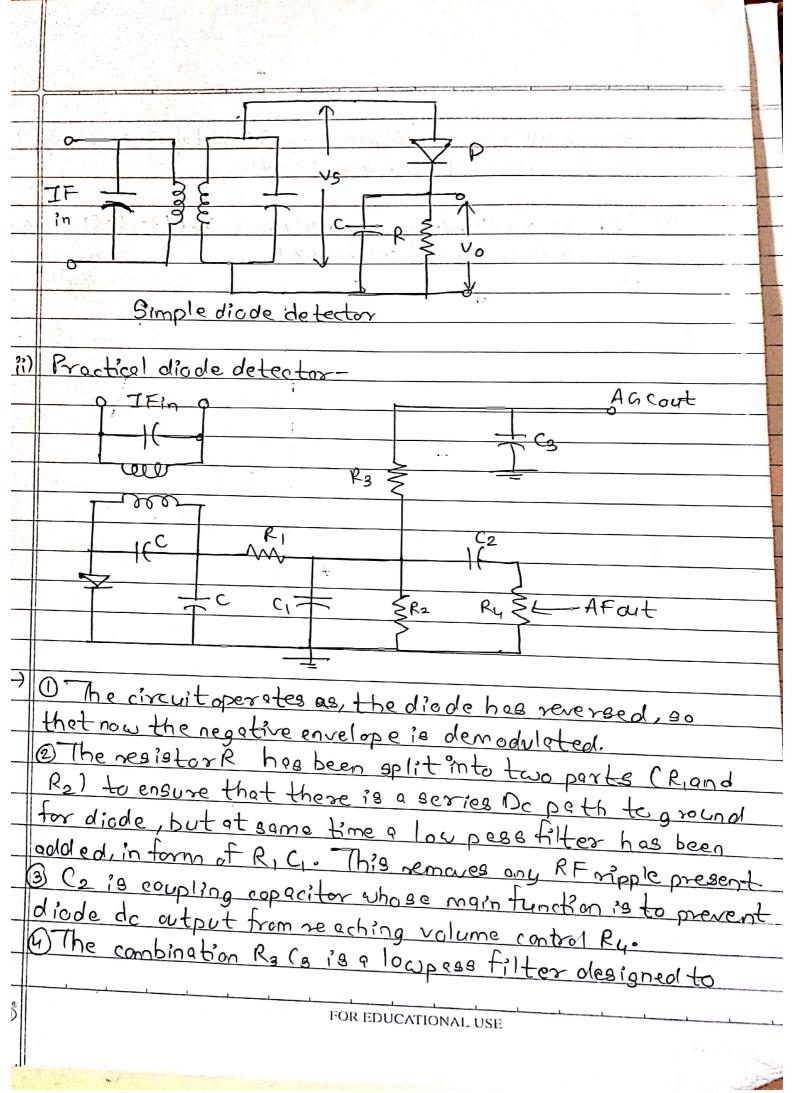


Compose High Level an	id Lawlevel modulation
Compare High	
High Level	Low level Moduletion
modulation	37 Hd. 2010 NO
are the leasts to three	en troudon the delication is
Modulation to lesplace at	O Modulation takes place at
high power level	lou nower level
O Class - Camplifier are	a Aftermoduletion linear
used which exchighly	amplifiers (Cless A, B, HB)
efficient	000108001.
Very high efficiency	3 Low of ficiency than high leve
Complex because of	@ Easy because of low power
very high power	Jatahan MA
Jery Myll Sob Dayser	(6) Deed in TV m. transmitters
Ogedin high power brugdoest transmitters-	(Franklohan method)
brugdoes Counsin cos	l'ab equipments, welkie-talkie
Explain generation of	with nest diagram
Explain generation as	02047 41
DBBFC using diade	avia.
- C al ² aa	Diode
Information Mr	provides multiplication
	T N. MIMILE
MAAAAAAA-MY	
0000000	Soloponi [300 - AM aignel
Camier	Envelope
Allen Allen Allen	- motches
	information
Section 1995	Signa /





	The state of the s
	The state of the s
	XI H= Vincos (27/pt)
	Ritte Vmsin(2ntint)
	olpot Adder
_	= X1 + 1 Vccos(27+c+)+ 2 (+1 Vcsin27+c+)
	Putbing X(t)
	= Vmcos(27/m+) (Vcoos(27/e+))+ (-Vmsin(2/1/m+1)(Vcon)
	= Vm Vc (cos(fr-fm12)+ - o/p of is only LSB
	For USBUP,
	-/ I Adda walke
	= X(+) Vccos(27fc+)- X(+) Vcsin(27fc+).
>	Explain AM demoduators with next circuit diagram.
Į,	Simple Diode detector-
j	The simple diode detector is by far the must common voice
	used for AM demodulation. On the concept, (18 8 mil)
	capacitance and Pielarge registance.
_	The posallel combination of R and (10 the load resistance
	emoss which the rectified output Vo is doveloped.
_	@ At each positive peak of RF cycle, C changes up to 9
_	potential almost equal to peak signal voltage ve, difference
	hara dieda la a
-	being diode drop.
-	3 The result is voltage to which reproduces the
-	modulating voltage accurately, except for small amount
-	of RF ripple
The second	
10000	
ALC: U.S.	
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