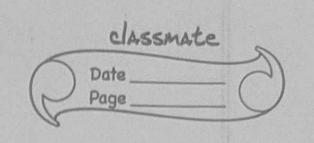
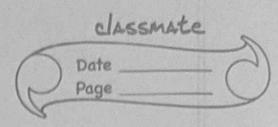
181105033 classmate UMANG METRI OLOM Tutorial 3 Chap 4 Talonia Escher monaj - too 1/69 1/1 1) 1 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 CIMA -NRZ-L Manchester MDB3 0 Differential marchester 2. List the steps that take an analog signal to a PCM digital sagrado code! -> a) Samplings-Analog signal is sampled for rate ts = 1 (Ts = same period)
To

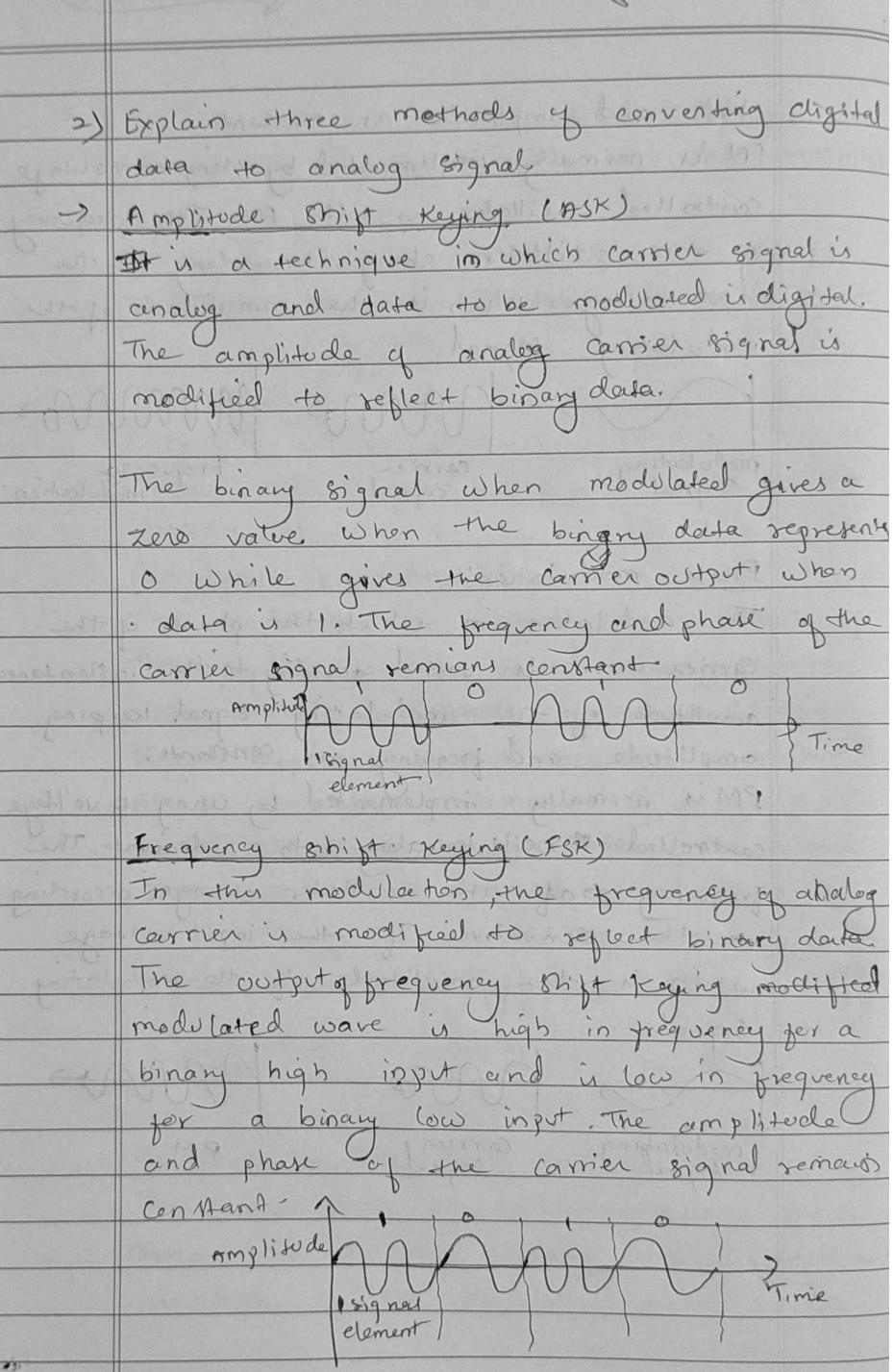


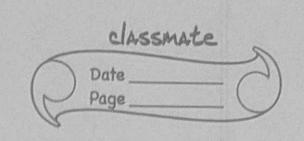
	b) Quantization 1- Representing the sampled meaning
	Values of the amplitude by a finite set of readresse
	D= (Nmax-Vmin)/2 and assign
	quantized value of 0 to (L-1) to
	midpoint of each zone
	e) Encoding - The last step is PCM encoding. After
	e each sample is quantized & the no.
	of bitt per sample is clerated pach
	sample can be changed to an nb
5	sample can be changed to an nb
	Bit rate = Sampling rate × no. q bits
	to xob in the state of the stat
	whomas I for it support the same in the principal them the
8)	Differentiate between serial & paralled transmission
)	s'erial rarallel
	i) It sends data bils one i) It sends multiple data
	after the another over a bit at the same time
	signal channel over mo in ple chainsel
1	in The order of docta bits is ii) The order of data bits
	important.
	The tore to program ini) It is easier to program.
	by This is 8lower than parallelly the
	was a stability of and southern the
2	Differentiate between board rate and bit rate.
	Continue to the second

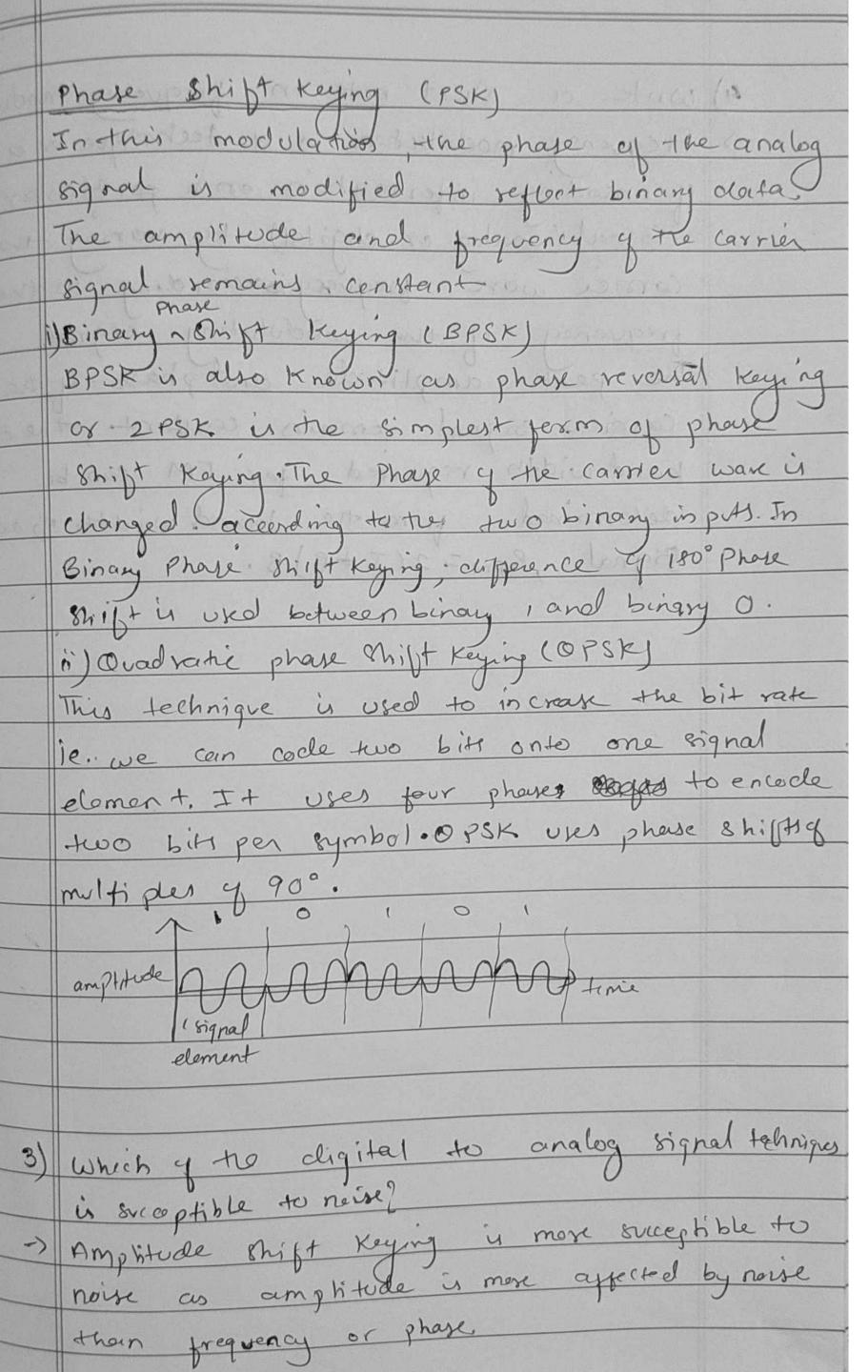
7	bit rate bard rate
	1) Focuses on computer i) Focuses on data transmiss
	efficiency ion
op.	is) nor of bits / see ii) no of signal onits/see
01 (13)	(ii) Bitrak = band rake iii) Bandrakz bit rate/no. b) bit
	Bitrak = band rake iii) Bandrak z bit rake/no. bij bits  per see  per see
	per see
Stiff open	Chap 5759 of 95R tool soft symbolis
الما ما ما	Explain methods per analog to analog convenies
Assabs	(AM, FM, PM)
	Amphitude modulation!
	The modulation in which the amplitude of
Halp.	the carrier wave is varied according to the
	in stantaneous amplitude of the modulating
	Signal keeping phase and frequency as constant.
STEEL STATES	AM is nermally implemented by using a simple
	me l'iplier because the amplitude of the carrier
mak alga	signal needs to be changed according to the
smit and	amplitude of the modulating signal.
January 3	modulating Courrier signel AM.
Hid Ha	modulating Cerries
+ 3h	signal, signel AM.
Stat Poys, c	Assert the energy of allering the
Partie Cour	Frequency modulation:
	The modulation in which the frequency of the Carrier wave is varied according to the in steintaneous
seleng 1	Carrier wave u varied according to the In Heintaneous
	omplitude of the modulating signal keeping
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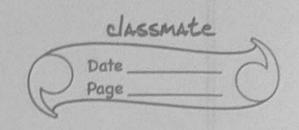
m þ	
	phase and amplitude as constant
	FM is normally implemented by using a voltage
	controlled ocillater as with FSK. The preguency
	of the orcillater changes according to the
	input voltage which is the amplitude of the
	input voltage which is the amplitude of the modulating signal
	Ann mans
	modulating carrier frequency signal signal modulation
	Phase modulation:
	The modulation in which the phase of the
	Carrier wave is varied according to the in Mantaneus
	medulating signal Keeping
	amplitude and frequency as connent.
	PM is normally implemented by using a voltage
	controlled & ocillater along with a denval. The
	treavener the oxillater changes according
	I the plenivative of the 1500 to
	which is the amplitude of the modulating
	Signal
	no has
The state of	
	modulating Carrier PM signal signal
	AND THE PARTY OF T











4)	write a shert note on frequency modulation
-S	Frequency modulation is a technique er a groces
Omin	a service lex maken en a particular
	y encoding infermation en a particular
	Signal (analog or digital) by varing the
	Carrier ware breging ceording to the
	frequency of the modulating signal
po pest of	The peak amplitude and phase of the
Scient	carrier signal remain constant, the total
iú Nenosi	band width required for FM can be
of the	determined prem the band width of audio
Short.	
. 0	whiel Abre I have a better best of the
	To passe or a trial sound strong of the
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