Digital Communication (ETEC-303) DATE: 20-10-2021 TEST-1 dry 1 1101100011 Binary dala Polar anatenacy Inverie - Differential Mandrester MDBN line wide wavefor in 0,0000 0 Bit segnena 00 0 10 at hack 3 Warryon -A 0

DAT	-																
DAT	E		-		-		*	*	*	×	*	-	*	×	*	*	ľ

9	Am 2. (+100096) MOTO OUT MADE 1, 18/10
3	Exigence of Manchester, Eipolar, & Polar Qualenary
3	DISADVANTAGES
9	Bipolar
	- No clock signal is prosent for use
	- long string of binary days with continuous
1	→ No Clock signal is prosent for use → long string of binary daya with continuous I's and O's cause long synchronization
17	MANCHESTER 1915HAR IMMENY
1)	
1)	required that more bits be transmitted then
0	ture is me original signal
0	
-	POLAR QUATENARY
-	Folcer NRZ-1 man polar NRZ-10 ale
7	Regnived trouce as much both bandwidth than polar NRZ-L. or polar NRZ-I
1	molar NR7-L or polar NRZ-I
	- Landing
7	Ripolan & Polan anaterary & Manufester
•	Tonder og line codne techniques 7
-	order of line coding fechniques of andwider

	DATE:
	2
Ans g(+) = 1000 lin (2500 m+	
and wife of the local and a particulary	W bolkence
W = 2500 27 rad /sec	
= 1250 43	1 11 1
2 W	or or or or or or
D ZM	to mich order a
I would had not weared	A SECOND PORT OF THE PROPERTY
Nygmist sate = 2 x f mon = 250	0 43
	= 1777711VIAM E
Nygmist interval = ) =	2500
Ny 90 rate	11 haringe E
4 x 10 mg	July whit
2 ms an	
NAKY	POLAK DVATE
Having tran polar NRZ-10 de	5 - Conster com
ALLA S	FOLIA NKZ
in the last war on sun	- Kapharen -
difference of	holon Wh
manufact	
11101120	0027
	6
	1 75
	1 8

0	
	DATE:
Aus 4. REGENERATIVE R	REPEATER
for any communication system it should transmit and effectively & without any loss	tem po be reliable el receire signal
gets dissorted due to noise by the Channel.	introduced introduced
B. I. M.	
Driginal Resulting	Restored pulse
for better representive or called as regenerative or employed in path before regularity occurred	epeoter sound is
distorted PCM -9 and Familiar Familiar	Decision marie regens device regens Pear want want circurs

10		
	DATE:	
43	Aus 6. g(+) = 1 V Sin (200 m+)	1 and
40	as (SN'R) dB = 6.02 mp + 1.76	
10	n 2 bels grantization	1
	CINK) db = 6.02×10 j 176  = 60.2 + 1.76  = 61.96 dB	
6-	- In	
	b) SNRZ (1.87 6n) XB	
10	40 c 1,8 + 6 n	
13	40-1.8 z 6 n	
13	6n z 38.2	
13	m 2 38.2 = 2 6.366	
3	n≈6 &	
3		
3		
The state of the s		

	DATE:
Am).	Linsential
	mellicuster (1 50 ) (AM)
* 1	1101100001
	8 X ( R 3 ' + 8 1) S N N 2 (d)
	6 8 8 2 E
	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

	DATE :	
dus 5. BN = 20K13		
Sampled + quantitied > encoded	PIM	an l
Sampled at Nyamit rate		an a
encoded to 128 levels		
	= man bib	
as minimum sampling vale	x Sanpling	
	Note	
		•
b) Signaling rate Rb = nfs Bit rate		
Bit rate		( W)
_		7777
2		97)) (day
		73
		0
		7
		5
		91
		•
		· fr

DATE:
Aus 5. BW FINDOKNZ III
sampled + quantitied > encoded P cm
encocled to 128 levels  as minimum sampling rate = may bits signals
level = 2 m rate  n = log 2 L = 7 x 28 0000
m= log, 128 = 1960k 42 = 7 = 2.5 × 10-5 see 8
b) Signaling rate Rb = nfs
Bit rate
= 7 x 2 x 20000 = 280000 reg bitt / sec
or 280 K bits) sec