Data Comm Mid Term Assignment 1

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ID: 17-34272-1

Section- H

JD-17-34272-] ABCD into 7 bit ASCIT AB-CDFFG-H characters. Convert this 28-bit digital data into digital signal using the following like coding schemes Unipolar NRZ Polari NRZ-L 6 @ Polar NRZ-I 1 Polar Manchester ? (2721*100) 0 Polar Different Manchester Bipolan AMI 1 Bipolan Pseudoternary (h) 281Q If the bitrate is EfGH*100 what will be required average bandwidth in these schemes. Comment about the De component and baseline wandering nature of these schemes. ASCT value 1 +0110001 A -1000001 7 011 0111 B - 100 0010 3 -0011 0011 c+1000011 4 10 011 0100 D + 100 0100 E -> 100 0101 2 +011 0010 F-> 100 0110 7 +011 0 111 G P 100 0111 2 -,011 0010 H-P100 1000 1 1011 0001

Umpolar NRZ 1734 386.4 0110001011011101100110110100 [ABCD] 3283A3 100 0001 100 0010 100 0011 1000100

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Polan NRZ-I O - No transition 1 - Transition apposite 11739 than before 0110001011011101100110110100 1000001100001010000111000100 ABCD)

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1- Hero 1- Zero ABCD -1734) 0110001 0110111 011 0011 011 0100 1000001100001010000111000100

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Psaudoternary 1 - Netral Bipolan o - Altomative 0110001011011101100110110100 100 0001 100 0010 100 0011 106 0100 Md Mustafizur Rahman ID-17-34272-1

AMI Bipetan Md Mustafizur Rahman ID-17-34272-1 011000/1011011101100110110100 O-p Netwal 700 1-p Transition Alternative than before (ABC) 1000001 100 0010 100 0011 100 0100

[Previous Previous Polan Manches ter 1734 28 bit ASCT 0110001011011101100110110100 2 - low to high (ve to tue)
0 - high to low (we to -ve) ABCDIS 1000001100001010000111000100 Md Mustafizur Rahman

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Md Mustafizur Rahman ID-17-34272-1

Previous 100 2810 wel level Next BIT Nex wel New tost **Md Mustafizur Rahman** ID-17-34272-1 10 +1 11 +3 21100010110111011100110110100 ed. (ABCD) 78 1000001 10000 10 10000 11 1000100

Bitrate = 2721 × 100 Bitrate = 2721 × 100 N= 272100

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1	B	W	=	N	/2	272	100	=	1	3605	0
							- 6				

Category	Base line wondering	DC Component	Scheme 1
Vnipolar	Synchronization Problem	Have Problem	NRZ
	Synchronizationlysten	Have Problem	NRZ-L
Polan Polan	Synchronizathoon Problem	Have Problem	NRZ-I
Polan	Overcome this problem	Have No Problem	Munchester
Polon	overcome this problem	Howe No Problem	Different Manchester
Bibolmi	Overcome this problem	Have No Problem	AMI
Bipolan	Overcome this problem	Have No Problem	Pseudotan nony
281Q	overcomes this poster	flure no Problem	many,