CMPT434 ~ ASSIGNMENT 1

1AIN WORKMAN 11139430 IPW969

2) NRZ: 7 bandwidth of B/2 Hz is required to achieve B bits per second. This is due to signals possibly cycling every 2 BHB and a bits MLT-3: A bandwidth of B/4 Hz is required to achieve B bits per second. This is due to the signals requiring 4 bits to cycle, Manchester: A bandwidth of BHz is required as Manchester requires 2x the rate of NRZ to include the clock signal. 6) 10 signals @ 4000 Hz = 40,000 Hz 9 guard bands @ 400 Hz = 3600 Hz total bandwidth = 43,600 Hz = 43,600 H3

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