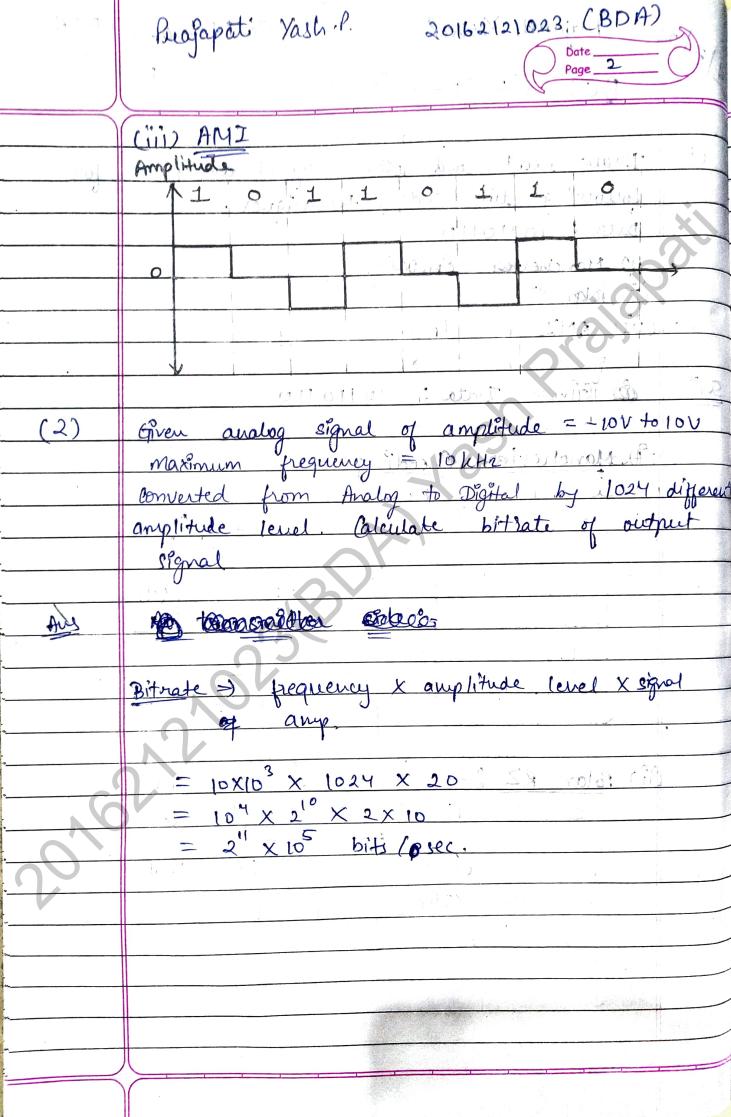
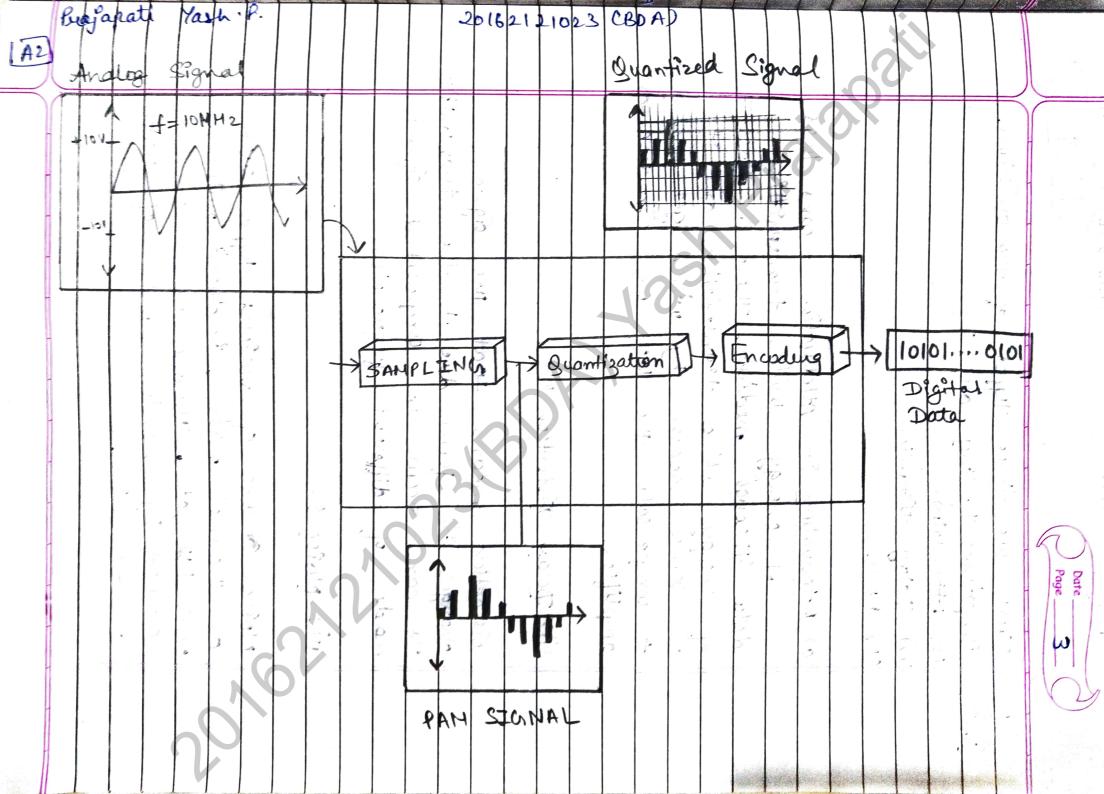
20162121023 (BDA) Prajapati Yash.P. 4/4/2 BCS (2CSE202) (1) Draw neat and clean signal waveform for following line-coding techniques. Data: 10/10/10 (i) Manchester Encoding (ii) Polar RZ IMA (iii) & Given Data! 10110110 Sol (9) Manchester Encoding Pin Polar RZ: -05 X MIST X CIRSI 13 Time





20162121023 (BDA) Perojopati Yash . P. There are three types of transmission Impairment. They we :-(a) Attenuation (b) Delay Distortion (c) Nolse a) Attenuation: - Attenuation means loss of energy while townsons Hing data through medium. There is Toss of energy while transmittion and it Ps same reason by wires get heated to compensate the loss we can use an amplifier (ii) Delay Distortion ?-Distortion means that the organal changes its form due to the transmitten It can occur in composited signal made of different frequencies. (iii) Noise 6-Nosce to are of various types such as thermal norse, induced notee, cross talk etc. Thermal noise is created by random motion of electrons in we wire

brojapati Yash P 20162121023 (BDA) Date \_\_\_\_\_ Page \_\_\_\_ For received signal Quality a term to noise ratio. SNR = power of signal .. Herre of Egnal power 95 10dB. .'. SNR = 10 dB

power of noise (dB) Observations: - I power is noise is mereased then SNR will decrease and is

power of moise is decreased, SNR will

increased. The Higher the SNR, go there

will be good quality of signal received