NIBRAS, SHAMIT

ID: 19-40117-1

DEPARTMENT: CSE

Course: DATA COMMUNICATION

Section: G

Data communication Lab Test

Given,

ID = AB-CDEFG-H

My id= 19-40117-1

V1=BD=90

V2=C=4

FH=11

BG=97

X1 = V1 sin(2π(FH*100) t)=90*sin(2*pi*(11*100))

X2 = V2 sin(2π(BG*100) t)= 4*sin(2*pi*(97*100))

Composite_signal=90*sin(2*pi*(11*100)) + 4*sin(2*pi*(97*100))

(a)Ans:

Our signal is: 90*sin(2*pi*(11*100)) + 4*sin(2*pi*(97*100))

The signal in time and frequency domain is done on octave and attested in the file.

(b)Ans:

AH=11;

S=AH*0.01;

(i)Ans:

Calculating the SNR value of the composite signal on octave and attested in the file.

(ii)Ans:

Calculating the maximum capacity of the signal on octave and attested in the file.

(iii)Ans:

Calculating the quantized signal and find the binary code words on octave and attested in the file.