

## Assignment # 4

Submission Date: 29<sup>th</sup> November, 2019.

Q1. Find the code words for the following data words having 3 redundant bits and the following

Generator:  $x^4+x^2$

1. Data word:  $x^9+x^5+x^2+1$ .
2. Data word:  $x^5+x^1+1$ .
3. Data word:  $x^9$ .

Generator: 1101

4. Data word: 11011001
5. Data word: 01010100

2. The following question is relevant to the code division multiple access (CDMA).

Make code for 16 systems and display what will be on the channel if the system has the following data to send:

System 1: <b>0</b>	System 2: <b>0</b>	System 3: <b>1</b>	System 4: <b>0</b>
System 5: <b>0</b>	System 6: <b>Silence</b>	System 7: <b>0</b>	System 8: <b>0</b>
System 9: <b>1</b>	System 10: <b>1</b>	System 11: <b>1</b>	System 12: <b>0</b>
System 13: <b>0</b>	System 14: <b>1</b>	System 15: <b>Silence</b>	System 16: <b>0</b>

Q3. Find the addresses for the following network having address 192. 168. 1. 1\25. The network has the further four subnets having 64, 32, 16 and 16 systems. Give the following information for each subnet:

Subnet Address:

Host Addresses:

Also give the following information

Network address:

Broadcast Address:

Mask: