



**SAGAR INSTITUTE OF RESEARCH AND TECHNOLOGY,
BHOPAL
MTECH ASSIGNMENT 2010**

BRANCH: EC SEM.: II SUBJECT: Network Design Technology (MEDC-204(A))

DATE OF SUBMISSION: 15 JUNE 2010

Q.1 Explain network model used in internet and give detail of each layer?

Q.2 Write difference between OSI and TCP/IP model what is the difference between peer to peer process and hierarchical process. Which type of process is used in TCP/IP?

Q.3 Give taxonomy of MAC and LLC sublayers protocols. Explain reservation methods and random access method used for MAC sublayers?

Q.4 Give difference among standard Ethernet, fast Ethernet .Gigabit Ethernet , token ring FDDI?

Q.5 Explain IPV4 addressing used in internet?

Q.6 Explain future addressing which will be used for internet?

Q.7a) What is IPV4 addressing? What is the address space of IPV4 addressing ?

Q.7b) Find the error, if any in the following IPV4 addresses.

- i) 111.56.045.78**
- ii) 221.34.7.8.20**
- iii) 75.45.301.14**
- iv) 11100010.23**

Q.8a) Give classification of internet addressing and explain it.

Q.8b) A block of addressing is granted to a small organization. The addresses are 205.16.37.39/28. What is first address, last address and address space?

Faculty: M Fatima

Sagar Institute of Research and Technology Bhopal

Mobile and Satellite Communication (MEDC 205)

Assignment

Q.1) Analyse the Dolph Chebyshev synthesis of sum patterns in detail for a cellular system.

Q.2) Discuss Foliage loss for a cellular network.

Q.3) Discuss the Mobile Station control on voice channel.

Q.4) What is Frequency Reuse? Also explain Co channel Interference Reduction Factor.

Q.5) Discuss the first order and second order statistics of fading.

Faculty: Minal Saxena

SAGAR INSTITUTE OF RESEARCH AND TECHNOLOGY

Advance Digital Communication MEDC—203(A)

1. Explain optimum receivers for PCM.
2. Explain different digital modulation techniques.
3. What do you mean by ISI in PCM . What is its significance.
4. Write modulation codes for spectrum spacing.

Faculty : Bharti Gupta