
Department of Electronics & Communication Engineering
Faculty of Engineering, Integral University, Lucknow

Assignment Sheet 3

Data Communication Network (EC-701)

Due Date : 30-09-2014

Problems : 5

Q1. What do you understand by **ALOHA** system. Prove that the efficiency of **Slotted ALOHA** is double than that of **Pure ALOHA**. Use graphical and analytical methods to prove the same.

Q2. What is the **CSMA**? How is **CSMA/CA** different from that of **CSMA/CD**?

Q3. Discuss and compare the **Exposed Terminal** and **Hidden Terminal** problem in wireless communication.

Q4. Write **short** notes on-

- i). 1-persistent CSMA
- ii). Non-persistent CSMA
- iii). P-persistent CSMA

Q5. What do you understand by Contention Based MAC Protocols?

Instructions:

- ❖ Do the Assignment on A-4 sheet only. Use both side of the page
- ❖ After the last date of the submission, assignment will not be accepted and zero marks will be awarded to the student who fails to submit the assignment on due date.
- ❖ For help student can take reference reading of the book Data Communications and Networking by Behrouz A.Forouzan of McGraw Hill Publication House.