## Indian Institute of Information Technology, Allahabad Department of Information Technology

**Computer Networks-ICNE 532C** 

**Lab Test** 

Date: 17/11/2017

Time: 6.30 PM to 7.45 PM

Note: Attempt any two

 $1. \ \ Consider \ the \ Cyclic \ Redundancy \ Check \ (CRC) \ algorithm \ suppose \ that \ 4-bit \ generator \ is \ 1001,$ 

that the data payload (D) is 10011011 and that r = 3. Implement the CRC using C\C++ and show

the CRC bits(R) associated with the data payload.

2. Implement the following encoding scheme

Manchester Encoding,

Differential Manchester encoding,

NRZ-L, and NRZ-I

Use data: 101000110 (Assume that signal starts with low) You may use 0 represent to low to high

and 1 represent to high to low.

3. Implement a chat application in which multiple clients communicate with the server using

Socket Programming. The client and server can be on a single machine or on the network. In this,

first, client A sends the message to server and then server will send this message to client B. There

will be no direct communication between A and B.