# Network Protocols - Assignment IV

(to be conducted any day starting April 20)

1. Explain the characters used to control the application program running on remote server in TELNET.
2. Explain the problem that may arise during simultaneous open in SCTP with the help of scenario (with states). Explain how SCTP handles it?
3. The state of a receiver is as follows:
   a. The receiving queue has chunks 1 to 8, 11 to 14, and 16 to 20.
   b. There are 1800 bytes of space in the queue.
   c. The value of lastAck is 4.
   d. No duplicate chunk has been received.
   e. The value of cumTSN is 5.
   Show the contents of the receiving queue and the variables.
4. A DNS client is looking for the IP address of xxx.yyy.com. Show the Query message and response message with values for each field. Assume the IP address is 201.34.23.12.
5. An SCTP client opens an association using an initial tag of 806, an initial TSN of 14534, and a window size of 20000. The server responds with an initial tag of 2000, an initial TSN of 670, and a window size of 14000. Show the contents of all four packets exchanged during association establishment.