## T10: Application Layer II

- Q1: In DHCP, why is the client required to renew the lease on IP address in use?
- Q2: Can a machine with a single DNS name have multiple IP address? How could this occur?
- Q3: What is the use of "hosts" file? What are the advantages of having a DNS server over "host" file?
- **Q4:** Consider the following case study.

Alice in Curitn University (alice@cs.curtin.edu.au) wants to send an email to Bob in Yale university (bob@cs.ai.yale.edu). Write down all the steps involved in the process of sending an email including the name resolution process via the DNS Servers.

You may assume that the DNS servers exist for curtin, edu (TLD), Yale and Yale Computing Faculty (cs)

- Q5: Why is Napster not considered a pure p2p protocol? Why is Gnutella considered to be a pure p2p protocol?
- **Q6:** Explain the process of joining a torrent in BitTorrent protocol. What does the term **tit-for-tat** mean in BitTorrent protocol?
- **Q7**: In P2P web, explain how the users visiting a website can contribute to the bandwidth.