

**COE 444 - Internetwork Design and Management  
Spring 2003 (Term 022)**

**Homework 1**

Date: Tuesday, March 4, 2003

**Q1.** Indicate which of the OSI layers performs each of the following tasks:

Remote login:

Bit transmission:

Routing of packets:

Negotiation and connection:

Conversion between character codes:

End-to-end reliable message delivery:

Point to point frame transmission:

Dialogue management:

Access to media:

Signal encoding:

**Q2.** Expand the following acronyms: TCP and UDP. At which layer each one of them functions? Give three characteristics of TCP and two characteristics of UDP.

**Q3.** List and describe briefly four switching technologies used in WANs.