

**COE 444 - Internetwork Design and Management
Fall 2004 (Term 041)**

Homework 1

Date: Thursday, September 16, 2004

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.