

# CSE3020 Network Technology

## Semester 1, 2004

### Tutorial 1 -Week 2

**Question T1.1** - Compare and contrast the delivery of data units in the data link layer and the network layer.

**Question T1.2** - In the OSI model, the design of a protocol in the network layer is required for a wide area network. Is such a protocol also necessary for a local area network? Explain why it is, or is not required.

**Question T1.3** - Why are protocols needed? What are the key elements of a protocol?

**Question T1.4** - List the major advantages and disadvantages with the layered approach to protocols.

**Question T1.5** - Match the following to one or more of the seven layers of OSI:

- (a) Reliable end-to-end data transmission.
- (b) Transmission of signal across physical medium.
- (c) User services such as e-mail and file transfer provided.
- (d) Reassembly of data packets into a message.
- (e) Definition of frames.
- (f) Establishment and termination of sessions.
- (g) Provision of format and code conversion services.
- (h) Network selection.