

# CSE3020 Network Technology

## Semester 1, 2004

### Tutorial 8 -Week 9

**Question T8.1** - What does IEEE Project 802 have to do with the physical layer of the OSI model?

**Question T8.2** - CSMA/CD:

- (a) What is meant by collision in LAN?
- (b) Briefly explain the operation of CSMA/CD protocol.
- (c) Why should there be fewer collisions on a Switched Ethernet network compared to a traditional Ethernet?

**Question T8.3** - Is Ethernet MAC protocol suitable for carrying time-sensitive traffic such as voice traffic? Explain your answer.

**Question T8.4** - Compare the data rates, access methods, and encoding schemes for traditional Ethernet, Fast Ethernet, and Gigabit Ethernet.

**Question T8.5** - IEEE 802.5 Token Ring:

- (a) What functions are performed by a token ring repeater?
- (b) How does a Token Ring LAN operate?

**Question T8.6** - FDDI Token Ring:

- (a) What are the advantages of FDDI over a basic Token Ring?
- (b) Compare and contrast the operation of a FDDI Token Ring and a basic Token Ring.

**Question T8.7** - Suppose there is heavy traffic on both a CSMA/CD LAN and a Token Ring LAN. A station on which system is more likely to wait longer to send a frame? Why?