

Midterm #2 -- closed book section
19 November, 1992

The entire exam is to be turned in at 10:40AM. Work the closed book section first and turn it in before you consult your books and notes to work on the open book section. For the closed book section, write your answers on the exam itself.

There are fifteen questions. Each is worth three points. Choose the most appropriate phrase for terminating each sentence. Circle your choice.

The twisted pair found in homes is usually used for

- A: telephone lines.
- B: electrical power.
- C: cable television service.
- D: hair curling irons.

In a circuit-switched network, messages are transmitted

- A: over coax cable..
- B: through offices maintained by the telephone company.
- C: in short packets.
- D: over allocated channels.

A protocol for sending packets between two sockets would be specified at

- A: the IP layer.
- B: the session layer.
- C: the application layer.
- D: the data link layer.

X.25 is used to connect hosts with

- A: twisted pair.
- B: virtual circuits.
- C: reliable datagram service.
- D: high-speed fiber.

In CSMA/CD when one transmitting hosts detects another transmitting host, it

- A: releases the free token.
- B: floods the net.
- C: jams the net.
- D: invokes the CLEAR-NET management function.

Medium access control is associated with

- A: the transport layer.
- B: the session layer.
- C: the data link layer.
- D: the physical layer.

In token ring, a host may transmit when

- A: its TRT (token-rotation timer) has expired.
- B: it senses the carrier is free.
- C: it has the free token.
- D: it has the highest priority.

A file transport protocol is specified within

- A: the network layer.
- B: the presentation layer.
- C: the application layer.
- D: the transport layer.

The LAN protocol most frequently used at UNCA is

- A: token bus.
- B: FDDI.
- C: Ethernet.
- D: token ring.

The switching technique that requires intermediate nodes to store entire copies of messages for short periods is

- A: packet switching.
- B: message switching.
- C: circuit switching.
- D: virtual switching.

Most token rings are wired as ``star-rings" to achieve

- A: increased throughput.
- B: lower cost.
- C: increase reliability.
- D: crosstalk immunity.

Most likely, a specification mentioning meters would be found at

- A: the data link layer.
- B: the application layer.
- C: the transport layer.
- D: the physical layer.

The MAC-layer protocol of FDDI, Fiber Distributed Data Interface, is similar to that of

- A: token ring.
- B: X.25.
- C: ethernet.
- D: RS-232.

In time-domain multiplexing, several channels are

- A: carried on a single wire.
- B: routed by a TSI, time slot interchange.
- C: routed by a crossbar.
- D: placed on a token bus.

In multi-mode optical fiber, light rays are reflected at the interface between

- A: the core and the cladding.
- B: the cladding and the jacket.
- C: the core and the jacket.
- D: the cladding and the mirror.