

Put your name on the back in the upper right-hand corner and fold your quiz lengthwise - Thanks.

## CS 440 Quiz 1

1. In a layered, hierarchical communications system identical layers on different hosts exchange messages in a form called what?

This is called a protocol - a standard way of interacting.

2. What is the responsibility of the Data Link in the OSI protocol stack?

This layer is responsible for controlling the physical layer and checking its performance. This includes address translation and framing for the physical layer and error checking.

3. What OSI protocol stack layer would be responsible for insuring that a transaction is eventually complete and error free in the event of a communication failure?

The Session Layer. The Transport Layer, which some answered is interested only in insuring that an end-to-end exchange is handled appropriately (and that doesn't mean error free).

4. When you use a call to the Linux *connect* function in a program, what are you doing?

You are asking the client side TCP layer to open a connection with the server side TCP layer so that you can send data using the TCP protocol. TCP requires the connect but other protocols, like UDP, don't.