

## Chapter 2

### Philip Bock

2.1)

Ordering:

Guest decides what is to be ordered and where from and then tells the Host.

Host calls the pizza place and places an order.

Order Clerk receives call and takes the order and records the callers address.

Order Clerk tells the Pizza Cook what to make.

Delivery:

Pizza Cook makes the pizza and informs the Order Clerk that it is ready.

Order Clerk informs the Delivery Van what is to be delivered and the address it is to be delivered to.

Delivery Van delivers the order to the Host and accepts payment for delivery.

Host accepts the pizza and delivers it to the Guest.

2.5) In broadcast mode, the network layer is not required because the computer s system does not have to engage in a dialogue with the network to specify a destination address because a broadcast goes to all address that are listening.

2.7) (a) Yes, the (N-1) layer segment must have a copy of the (N) / previous layers header. The (N) does not need a copy of the (N-1) header however.

2.7) (b) It is necessary that each (N) level place its header at the front of its PDU in sequential order at the beginning since data transmission is read in a sequential bit-by-bit from left to right.

2.9) The limiting factor in the time required to transfer a file in TFTP (Trivial File Transfer Protocol) is if the sender does not receive an acknowledgement before the timer runs out, it resends the packet until an acknowledgement is received.