

11. An *internet* is an interconnection of networks. The *Internet* is the name of a specific worldwide network.
12. A *protocol* defines *what* is communicated, in *what way* and *when*. This provides accurate and timely transfer of information between different devices on a network.
13. *Standards* are needed to create and maintain an open and competitive market for manufacturers, to coordinate protocol rules, and thus guarantee compatibility of data communication technologies.

Exercises

14. *Unicode* uses 32 bits to represent a symbol or a character. We can define 2^{32} different symbols or characters.
15. With 16 bits, we can represent up to 2^{16} different colors.
16.
 - a. Cable links: $n(n-1)/2 = (6 \times 5)/2 = 15$
 - b. Number of ports: $(n-1) = 5$ ports needed per device
17.
 - a. *Mesh topology*: If one connection fails, the other connections will still be working.
 - b. *Star topology*: The other devices will still be able to send data through the hub; there will be no access to the device which has the failed connection to the hub.
 - c. *Bus Topology*: All transmission stops if the failure is in the bus. If the drop-line fails, only the corresponding device cannot operate.
 - d. *Ring Topology*: The failed connection may disable the whole network unless it is a dual ring or there is a by-pass mechanism.
18. This is a *LAN*. The Ethernet hub creates a LAN as we will see in Chapter 13.
19. Theoretically, in a *ring topology*, unplugging one station, interrupts the ring. However, most ring networks use a mechanism that bypasses the station; the ring can continue its operation.
20. In a *bus topology*, no station is in the path of the signal. Unplugging a station has no effect on the operation of the rest of the network.
21. See Figure 1.1
22. See Figure 1.2.
23.
 - a. E-mail is not an interactive application. Even if it is delivered immediately, it may stay in the mail-box of the receiver for a while. It is not sensitive to delay.
 - b. We normally do not expect a file to be copied immediately. It is not very sensitive to delay.
 - c. Surfing the Internet is the an application very sensitive to delay. We expect to get access to the site we are searching.
24. In this case, the communication is only between a caller and the callee. A dedicated line is established between them. The connection is *point-to-point*.

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Kathleen Armour



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