Chapter 02

1. Refer to the exhibit. Identify the devices labeled A, B, C, and D in the network physical documentation.
        a.A=bridge, B=switch, C=router, D=hub
        * b.A=bridge, B=hub, C=router, D=switch
        c.A=bridge, B=router, C=hub, D=switch
        d.A=hub, B=bridge, C=router, D=switch

2. The central hub has malfunctioned in the network. As a result, the entire network is down. Which type of physical network topology is implemented?
        a.bus
        * b.star
        c.ring
        d.mesh

3. A switch has failed in the network. As a result, only one segment of the network is down. Which type of physical network topology is implemented?
        a.bus
        b.ring
        c.star
        * d.extended star

4. Which three features apply to LAN connections? (Choose three.)
        a.operate using serial interfaces
        * b.make network connection using a hub
        * c.limited to operation over small geographic areas
        d.provide part-time connectivity to remote services
        * e.typically operate under local administrative control
        f.provide lower bandwidth services compared to WANs

5. What is one advantage of defining network communication by the seven layers of the OSI model?
        a.It increases the bandwidth of a network.
        * b.It makes networking easier to learn and understand.
        c.It eliminates many protocol restrictions.
        d.It increases the throughput of a network.
        e.It reduces the need for testing network connectivity.

6. What makes it easier for different networking vendors to design software and hardware that will interoperate?
        * a.OSI model
        b.proprietary designs
        c.IP addressing scheme
        d.standard logical topologies
        e.standard physical topologies

7. Which term describes the process of adding headers to data as it moves down OSI layers?
        a.division
        b.encoding
        c.separation
        d.segmentation
        * e.encapsulation

8. What is the term used to describe the transport layer protocol data unit?
        a.bits
        b.packets
        * c.segments
        d.frames
        e.data streams

9.   Which of the following are layers of the TCP/IP model? (Choose three.)
          * a.Application
          b.Physical
          * c.Internet
          * d.Network Access
          e.Presentation

10.   Which of the following are data link layer encapsulation details? (Choose two.)
          * a.A header and trailer are added.
          b.Data is converted into packets.
          * c.Packets are packaged into frames.
          d.Frames are divided into segments.
          e.Packets are changed into bits for Internet travel.

11.   Which layer of the OSI model provides network services to processes in electronic mail and file transfer programs?
          a.data link
          b.transport
          c.network
          * d.application

12.   Which two features apply to WAN connections? (Choose two.)
          * a.operate using serial interfaces
          b.make network connection using a hub
          c.limited to operation over small geographic areas
          d.typically operate under local administrative control
          * e.provide lower bandwidth services compared to LANs

13.   Which of the following are ways that bandwidth is commonly measured? (Choose three.)
          a.GHzps
          * b.kbps
          * c.Mbps
          d.Nbps
          e.MHzps
          * Gbps

14.   Refer to the following list. Choose the correct order of data encapsulation when a device sends information. segments bits packetsdata frames
          a.1 - 3 - 5 - 4 - 2
          b.2 - 1 - 3 - 5 - 4
          c.2 - 4 - 3 - 5 - 1
          d.4 - 3 - 1 - 2 - 5
          * e.4 - 1 - 3 - 5 - 2
          f.3 - 5 - 1 - 2 - 4

15.   Which of the following are factors that determine throughput? (Choose two.)
          a.types of passwords used on servers
          b.type of Layer 3 protocol used
          * c.network topology
          d.width of the network cable
          * e.number of users on the network

16.   Refer to the exhibit. Which column shows the correct sequence of OSI model layers?
          a.A
          b.B
          c.C
          * d.D

17.   Which layer of the OSI model provides connectivity and path selection between two end systems where routing occurs?
          a.physical layer

b.data link layer
* c.network layer
d.transport layer

18. Which best describes the function of the physical layer?
* a.Defines the electrical and functional specifications for the link between end systems.
b.Provides reliable transit of data across a physical link.
c.Provides connectivity and path selection between two end systems.
d.Concerned with physical addressing, network topology and media access.