## Chapter 05

1. What device is used to connect hosts to an Ethernet LAN and requires a straight-through UTP cable between the hosts and this device?
a.NIC
b. router

* c.switch
d.server

2. Users with systems that are attached to a hub are complaining about poor response time. What device could replace the hub and provide immediate response time improvement?
a. router

* b. switch
c.bridge
d.repeater

3. Refer to the exhibit. How many collision domains exist in the network?
a. 1

* b. 2
c. 4
d. 7
e. 8

4. At which layer of the OSI mode1 does the MAC address of a NIC reside?
a.physical
b.application
c. network
d.transport

* e.data link
f.session

5. Which statement describes a typical use of Gigabit Ethernet?
a.to provide high-speed desktop connectivity for average users
b.to provide connectivity to low to medium volume applications
c.to provide medium volume connectivity to workgroup servers

* d.to provide high-speed connectivity for backbones and cross connects

6. Refer to the exhibit. A technician measured the lengths of the CAT 5e structured cable runs in the exhibit. How should the technician evaluate the cabling shown in the diagram to the network administrator?
a.Al1 cabling to work areas are within specifications.
b. Station $A$ and $B$ may experience intermittent problems because the length exceeds the recommended standard.

* c.Station B may experience intermittent problems because the length exceeds the recommended standard.
d.Station C may experience intermittent network connectivity because the length is less than the recommended standard.
e. Station $A$ and $B$ will have intermittent problems because the length exceeds the recommended standard.
f. Station C will not have network connectivity because the length is less than the recommended standard.

7. what is the most common type of cabling used in LANs?
a. STP

* b.UTP
c.coax
d.fiber

8. In which situations would a crossover cable be used to connect devices in a network? (Choose two.)
a.switch to PC

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* b.switch to hub
c. switch to router
d.switch to server
* e.switch to switch

9. Refer to the exhibit. What is the appropriate cable to use at each of the numbered network connections?
a.1-crossover; 2-straight-through; 3-crossover; 4-straight-through
b.1-straight-through; 2-crossover; 3-straight-through; 4-straight-through
c.1-straight-through; 2-crossover; 3-crossover; 4-straight-through

* d.1-rollover; 2-crossover; 3-straight-through; 4-straight-through
e.1-rollover; 2-straight-through; 3-straight-through; 4-straight-through

10. The ends of a UTP cable are shown in the exhibit. which cable configuration is shown?
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a.crossover
b. rollover
c. reversed-pair
* d.straight-through
e.split-pair
f.console
```

11. which of the following are benefits of a wireless network? (Choose two.)
a.higher data speeds
b.better security

* c.mobility
d. 1 ess expensive NIC cards
* e.no need to run cables to hosts

12. The ends of a UTP cable are shown in the exhibit. which cable configuration is shown?
a.console

* b.crossover
c.rollover
d.reversed-pair
e.split-pair
f.straight-through

13. which two devices are considered OSI Layer 1 devices? (Choose two.)

* a.hubs
b.routers
c.bridges
d. switches
* e.repeaters

14. Which statement is accurate about a WAN link?

* a. The link transmits data serially.
b. The link uses a maximum distance of 100 meters.
c. The link uses the same transmission rate as all other wan links use.
d.The link uses the same standardized connector style that is used for all

WAN technologies.
15. which items in the exhibit are DTE devices?

$$
\begin{aligned}
& \text { a.A and B } \\
& \text { b.B and C } \\
& \text { C.C and D } \\
& \# \text { d.A and D } \\
& \text { C.A, B, C, and D }
\end{aligned}
$$

16. which function is a unique responsibility of the DCE devices shown in the exhibit?
a.transmission of data
b.reception of data

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> *.clocking for the synchronous link
> d.noise cance1lation in transmitted data
17. What type of cable would be used to make the connection between the console port of a router and a workstation?
a.crossover

* b. rollover
c. straight-through
d.patch

18. What is characteristic of the operation of a hub?
a.selectively drops packets that represent potential security risks

* b.forwards a frame out all interfaces except the inbound interface
c.based on IP address, dynamically learns the interfaces to which all
devices are attached
d.upon power on, queries the devices on all interface to learn the MAC addresses of the attached devices
e.transmits a frame to the specific interface to which the device with the MAC destination address is attached

19. which of the following are benefits of peer-to-peer networks? (Choose three.) a.centralized security

* b.easy to create
c. very scalable
* d.no centralized equipment required
* e.centralized administrator not required
f.centralized control of assets

20. which address does a bridge use to make filtering and switching decisions? a.source MAC
b. source IP
*. c.destination MAC
d.destination IP
e.network IP address
