**HW5 Chapter 2 Review Questions**

1. Which of the following is a limitation of early networks that used a daisy-chain method

of connecting computers? (Choose all that apply.)

a. Total number of computers that could be connected

c. Cable length

2. Which of the following is true of a repeater?

c. Receives bit signals and strengthens them

3. Which of the following is true of a hub? (Choose all that apply.)

a. Usually has just two ports

b. Transmits regenerated signals to all connected ports

4. Which of the following is the unit of measurement by which a hub’s bandwidth is usually specified?

b. Bits per second

5. Which of the following describes how devices connected to a hub use the speed at which the hub can transmit data?

c. Bandwidth sharing

6. Which of the following is a likely indicator light on a hub? (Choose all that apply.) a. CRC error

b. Link status

c. Connection speed

d. Activity

7. Which of the following describes how devices connected to a switch use the speed at which the switch can transmit data?

a. Dedicated bandwidth

8. What does a switch use to create its switching table?

d. Source MAC addresses

9. What purpose does the timestamp serve in a switching table?

c. Tells the switch when to delete an entry

10. What feature of a switch allows devices to effectively communicate at 200 Mbps on a 100 Mbps switch?

b. Full-duplex mode

11. To which device is a wireless access point most similar in how it operates?

a. Hub

12. What’s the purpose of an RTS signal in wireless networking?

c. It allows a client to notify the AP that it’s ready to send data.

13. Which of the following is a common operational speed of a wireless network?

d. 11 Mbps

14. Which of the following is a task performed by a NIC and its driver? (Choose all that

apply.)

a. Provides a connection to the network medium

c. Receives packets from the network protocol and creates frames

e. Adds error-checking data to the frame

15. Which of the following best describes a MAC address?

b. Two 24-bit numbers, in which one is the OUI

16. Under which circumstances does a NIC allow inbound communications to pass through the interface? (Choose all that apply.)

b. The destination MAC address matches the built-in MAC address.

c. The destination MAC address is all binary 1s.

17. How does a protocol analyzer capture all frames?

c. It configures the NIC to operate in promiscuous mode.

18. In Windows 10, which of the following displays information about currently installed

NICs?

a. Network Connections

19. Which of the following is the purpose of an SSID?

d. Identifies a wireless network

20. Which of the following describe the function of routers? (Choose all that apply.)

b. Connect LANS

d. Work with packets and IP addresses

21. What information is found in a routing table? a. Computer names and IP addresses

b. Network addresses and interfaces

22. You currently have 15 switches with an average of 20 stations connected to each switch. The switches are connected to one another so that all 300 computers can communicate with each other in a single LAN. You have been detecting a high percentage of broadcast frames on this LAN. You think the number of broadcasts might be having an impact on network performance. What should you do?

c. Reorganize the network into smaller groups and connect each group to a router.

23. Review the routing table in Figure 2-25. Based on this figure, where does the router send a packet with the source network number 1.0 and the destination network number 3.0?

c. WAN B

24. If a router receives a packet with a destination network address unknown to the router, what does the router do?

b. Discard the packet.

25. Which of the following is true about routers? (Choose all that apply.)

b. Use default routes for unknown network addresses

c. Forward unicasts