

Chapter 8 Exam - IT Essentials (Version 4.0) REVIEW

NAME: _____

1. Reference: 8.2.5 Explain client/server networks

What are the factors or reasons to choose a client/server model for a network instead of peer-to-peer?

2. Reference: 8.3.3 Define DHCP

Why use a Switch versus a router or a hub? What does a switch do?

3. Reference: 8.3.3 Define DHCP

What does DHCP do?

4. Reference: 8.3.5 Define ICMP

How do you use Ping? Why use Ping? Give an example.

5. Reference: 8.4.1 Identify names, purposes, and characteristics of network devices

Which device enables computers to be attached to a network without segmenting the network?

6. Reference: 8.4.2 Identify names, purposes, and characteristics of common network cables

List the reasons for using fiber optic cable.

7. Reference: 8.4.2 Identify names, purposes, and characteristics of common network cables

Refer to the exhibit. Which type of network cable is shown?



8. Reference: 8.4.2 Identify names, purposes, and characteristics of common network cables

What factors are used to determine the different categories of UTP cabling?

9. Reference: 8.4.2 Identify names, purposes, and characteristics of common network cables

Which type of media is appropriate to use for LAN connectivity in an electrically noisy industrial environment?

10. Reference: 8.5.1 Describe LAN topologies

What is a mesh network? Where is a mesh network used? How is it better than other topologies?

11. Reference: 8.5.1 Describe LAN topologies

What is star network? Where can you find star networks? What are the advantages and disadvantages of a star network?

12. Reference: 8.5.2 Describe LAN architectures

Describe at least 2 characteristics describe Ethernet technology?

13. Reference: 8.7.1 Explain cabled Ethernet standards

What is the maximum range a data signal can travel through a 1000BASE-T network segment?

14. Reference: 8.7.1 Explain cabled Ethernet standards

Which technique is used to ensure that data from one computer does not collide with data from any other computer in a CSMA/CD network?

15. Reference: 8.7.2 Explain wireless Ethernet standards

Which wireless IEEE standard operates in a radio frequency of 2.4 GHz and supports a maximum bandwidth of 54 Mbps?

16. Reference: 8.8.2 Define the OSI model

Which layer of the OSI model is primarily concerned with accessing the physical media and physical addressing?

17. Reference: 8.8.2 Define the OSI model & 8.8.3 Compare OSI and TCP/IP

Which term describes the process of adding headers to data as it moves through the layers of the OSI model?

18. Reference: 8.10.1 Describe telephone technologies

A company is investigating the use of an ISDN service to act as backup for the ADSL service they use to communicate with branch offices. They discover that the ISDN BRI service uses two 64 kb/s B channels. Which function do the B channels perform?

19. Reference: 8.10.1 Describe telephone technologies

Which digital technology provides an upstream speed that is typically less than the downstream speed?

20. Reference: 8.10.2 Define power line communication

A company has a remote branch office that has no access to any high-speed WAN or broadband services. The network administrator is considering Power Line Communication (PLC) to connect the branch office to the main office. What are two advantages of PLC?

21. Reference: 8.12.1 Review the troubleshooting process

Which Windows XP command displays the route taken by packets crossing an IP network?