CWNA Guide to Wireless LANs 3rd Edition Ciampa Test Bank

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Chapter 2: Wireless Local Area Networks

TRUE/FALSE

IKUI	MIALSE							
1.	WLANs are based on de jure standards.							
	ANS: T	PTS:	1	REF:	39			
2.	A directed transmiss	h from emitter to detector.						
	ANS: T	PTS:	1	REF:	41			
3.	3. If a remote wireless bridge is in repeater mode it functions as a standard AP only and doe communicate with other remote wireless bridges.							
	ANS: F	PTS:	1	REF:	59			
4.	4. De facto standards are official standards.							
	ANS: F	PTS:	1	REF:	38			
5.	The IEEE 802.11g st	tandard	requires the str	ongest l	level of wireless security.			
	ANS: F	PTS:	1	REF:	44			
MUL	TIPLE CHOICE							
1.	Which IEEE standar a. 802.11a b. 802.11b	d added	speeds of 5.5 a	c.	Mbps to the WLAN standards? 802.11g 802.11i			
	ANS: B	PTS:	1	REF:	42			
2.	which of the follows a. speeds up to 600 frequency as 802 b. speeds up to 541 frequency as 802) Mbps a 2.11a Mbps a	and same radio		speeds up to 11 Mbps and same radio frequency as 802.11c			
	ANS: B	PTS:	1	REF:	43			
3.	Wireless NICs perfo a. no RJ-45 connec b. no MAC address	ction	same function a	s a wire c. d.	ed NIC except for which of the following? transmits bits requires a driver			
	ANS: A	PTS:	1	REF:	46			
4.	Which of the following a. designed primarib. was used as a stocameras	ily for u	se in PDA devi	ices c.	has a bus mastering feature has a 16-bit bus			
	ANS: C	PTS:	1	REF:	50			

	a. Wireless Zero Cb. WLAN AutoCo	-		MS WNIC Config AutoNIC Configuration		
	ANS: B	PTS: 1	REF:	51		
6.	Which type of remobuildings together? a. segment-to-seg: b. multipoint-to-m	ment	c.	s used to connect multiple LAN segments, or point-to-point point-to-multipoint		
	ANS: D	PTS: 1	REF:	58		
7.	If a remote wireless a. access point mob. root mode		c.	ly transmit to another bridge in root mode. nonroot mode repeater mode		
	ANS: C	PTS: 1	REF:	59		
8.	Which of the following typically resides between the wireless network and the wired network, servi as the entry point to the wired network while providing encryption and authentication services? a. residential WLAN gateway b. point-to-multipoint remote wireless bridge d. point-to-point authenticating bridge					
	ANS: C	PTS: 1	REF:	59		
9.		ect Now, SoftAP	c.	ndows 7 wireless Hosted Network function? Virtual WiFi, ICS ICS, WCN		
	ANS: B	PTS: 1	REF:	61		
10.	Which of the follow a. midspan device b. power sourcing	,	c.	end device and adds power to the line? SoftAP EEG		
	ANS: A	PTS: 1	REF:	63		
11.	If you are installing provide power to tha. WCN b. SoftAP		ology should c.	ut find there are no electrical outlets nearby to you deploy? POE Virtual Wifi		
	ANS: C	PTS: 1	REF:	61		
12.	Which of the follow a. autonomous acc b. lightweight acc	cess point		ge enterprise or campus wireless network? fat access point Soft access point		
	ANS: B	PTS: 1	REF:	53		
13.	Which of the follow a. wireless LAN c b. fat access point	controller		and configuration functions for a thin access point? PoE controller mesh access point		
	ANS: A	PTS: 1	REF:	53		

5. Windows Vista and Windows 7 use which software for configuring wireless NICs?

14.	Which of the followi a. antenna b. wired network in		OT a major par	c.	autonomous access point? bridging software wireless switch		
	ANS: D	PTS:	1	REF:	51		
15.	Which is NOT a limi a. lack of mobility b. doesn't work we			c.	tems? slow transmission speed limited range		
	ANS: B	PTS:	1	REF:	42		
16.	Which of the followi a. diffused transmis light				missions? they are most reliable outdoors		
	b. directed transmis beam	sion ha	s a wide-focuse	ed d.	mobility is their greatest strength		
	ANS: A	PTS:	1	REF:	41		
MUL	ΓIPLE RESPONSE						
1.		ng are a	ndvantages of h	aving s	tandards govern how a technology works? (Choose		
	all that apply.)a. interoperabilityb. high profits from	lower	competition		proprietary equipment lower costs		
	ANS: A, D	PTS:	1	REF:	38-39		
2.			mprovements o	of the 80	02.11n standard over previous 802.11 standards?		
	(Choose all that apply a. data rates up to 1		,	0	security		
	b. coverage area	.2 G bps	•	d.	different frequencies reduce interference		
	ANS: B, C, D	PTS:	1	REF:			
3.		ng are r	modes in which	a remo	te wireless bridge can function? (Choose all that		
	apply.)a. switching mode			c.	routing mode		
	b. nonroot mode				repeater mode		
	ANS: B, D	PTS:	1	REF:	59-60		
4.	Which of the following are differences between a remote wireless bridge and an AP? (Choose all that apply.)						
	a. remote wireless l	oridges	have increased	c.	remote wireless bridges provides		
	power h remote wireless l	ridges	have a direction	nal d	encryption remote wireless bridges only connect		
	antenna	nages	nave a direction	nai u.	devices in close proximity		
	ANS: A, B	PTS:	1	REF:	57		
COM	PLETION						

Ι.	ensure that devices from one vendor will function with those from other
	vendors.
	ANS: Standards
	PTS: 1 REF: 37
2.	The IEEE standard specified that wireless transmissions could occur via
	infrared light or radio waves.
	ANS: 802.11
	PTS: 1 REF: 40
3.	Remote wireless can connect sites such as satellite offices, remote campus settings, or temporary office locations when the sites are separated by obstacles such as bodies of water, freeways, or railroads that make using a wired connection impractical or very expensive.
	ANS: bridges
	PTS: 1 REF: 59
4.	A(n) is a device that receives a signal from an emitter.
	ANS: detector
	PTS: 1 REF: 41
5.	A access point does not have to be individually connected by a cable to the wired network but can communicate with other access points of the same type to reach the wired connection.
	ANS: mesh
	PTS: 1 REF: 54

MATCHING

Match each term with the correct statement below.

a. directed transmission

f. repeater mode

b. emitter

g. root bridge

c. form factor

h. wireless mesh network

d. nonroot mode

i. wireless switch

e. PoE injector

- 1. device that contains the management and configuration functions for a lightweight access point
- 2. term used to refer to a wireless bridge operating in root mode
- 3. an infrared wireless transmission that requires that the emitter and detector be directly aimed at one another
- 4. a mode of a wireless bridge that allows the bridge to extend the distance between buildings
- 5. a small and inexpensive device that can inject power into an Ethernet cable

- 6. mode of a wireless bridge in which the bridge can transmit only to a wireless bridge that is in root mode
- 7. a network of wireless mesh access points that communicate between themselves
- 8. a term used to refer to the size and shape of a device
- 9. a device that transmits a signal and is used in an IEEE 802.11 infrared network

1.	ANS:	I	PTS:	1	REF:	53
2.	ANS:	G	PTS:	1	REF:	58
3.	ANS:	A	PTS:	1	REF:	41
4.	ANS:	F	PTS:	1	REF:	59
5.	ANS:	E	PTS:	1	REF:	63
6.	ANS:	D	PTS:	1	REF:	58
7.	ANS:	H	PTS:	1	REF:	63
8.	ANS:	C	PTS:	1	REF:	48
9.	ANS:	В	PTS:	1	REF:	40

SHORT ANSWER

1. List the three sources of standards.

ANS:

De facto standards

De jure standards

Consortia-created standards

PTS: 1 REF: 39

2. What are the two functions of an access point?

ANS:

First, the access point acts as the base station for the wireless network. Any device with a wireless NIC transmits its signal to an AP, which can then redirect the signal, if necessary, to other wireless devices. The second function of an AP is to act as a bridge between the wireless and wired networks.

PTS: 1 REF: 51

3. A remote wireless bridges support two types of connections. Describe them.

ANS:

Remote wireless bridges support two types of connections, point-to-point and point-to-multipoint. In a point-to-point (PtP) configuration, two buildings are connected. In a point-to-multipoint (PtMP) configuration, multiple buildings are connected.

PTS: 1 REF: 57

4. List and describe three advantages of standards for wireless technology.

ANS:

Interoperability. Standards ensure that devices from one vendor will function with those from other vendors. Devices that are not based on standards often cannot interoperate with similar devices from other vendors.

Competition. Standards serve to create competition. If a vendor creates a new device without regard to current standards, then it automatically owns the specifications for the device; the vendor might even take out a patent on the device. This makes it virtually impossible for another vendor to produce the same device; thus, competition among multiple vendors selling the same device is impossible. From the point of view of the consumer, standards are desirable because they encourage competition. Any vendor

can create a device based on a recognized standard. In order to compete, vendors will add additional features to their products, thus increasing the overall value for users.

Lower costs. Competition results in lower costs for both users and manufacturers. When several vendors make similar products based on the same standards, they compete against each other on the price, which in turn makes the product less expensive for users. Competition also results in lower costs for manufacturers. Because standards have been established, manufacturers do not need to invest large amounts of capital in research and development. This reduces start-up costs as well as the amount of time required to bring a product to market. Also, manufacturing to standards encourages manufacturers to deploy mass-production techniques and economies of scale to keep production costs low, with savings that in turn are passed on to users.

Protection. Standards help protect the user's investment in equipment. It is not uncommon for a proprietary vendor to phase out a product line, leaving a business that purchased the equipment with two choices: continue to use the now-obsolete system with escalating costs for supplies and technical support, or discard the legacy system and buy a new system. Both choices are costly. Standards, however, can help create a migration path for equipment upgrades. Newer standards are generally backward compatible or at least provide a means of migrating to equipment based on the newer standards at a minimal cost.

PTS: 1 REF: 37-38

5. Describe the difference between directed transmission and diffused transmission with respect to infrared transmissions.

ANS:

A directed transmission requires that the emitter and detector be directly aimed at one another in a line of sight (LoS) path. A diffused transmission relies on reflected light. The emitters on diffused transmissions have a wide-focused beam instead of a narrow beam and are pointed at the room's ceiling, which serves as the reflection point.

PTS: 1 REF: 41

6. List the four modes in which a wireless bridge can function.

ANS:

Root mode Nonroot mode Repeater mode Access point mode

PTS: 1 REF: 58-59

7. What is a gateway and what types of gateways do you find in wireless networks?

ANS:

A gateway is a network device that acts as an entrance to another network. There are two types of gateways in wireless networks, Enterprise Encryption Gateways and residential WLAN gateways.

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PTS: 1 REF: 59

8. List and describe the two terms used for measuring wireless network speeds.

ANS:

Data rate. The data rate is the theoretical maximum rated speed of a network. For example, the data rate for IEEE 802.11b is 11 Mbps. However, the data rate is only theoretical. Due to a variety of factors, a network rarely achieves its stated data rate.

Throughput. Throughput is the measure of how much actual data can be sent per unit of time across a network. Throughput is often used to measure the amount of data actually sent across a network in a real world setting. If two 802.11 devices are 30 feet (10 meters) apart, the throughput may only be 5.5 Mbps.

PTS: 1 REF: 43

9. Describe the Microsoft Windows 7 feature referred to as the wireless Hosted Network.

ANS:

This feature has two parts: the virtualization of the physical wireless NIC into multiple virtual wireless NICs (called Virtual WiFi) and a software-based wireless access point (SoftAP) that uses a designated virtual wireless NIC. The wireless Hosted Network allows users to extend the functionality of their portable laptop computer. For example, a user could set up her computer to create a wireless network so that other users can quickly share documents wirelessly between multiple computers. Another function allows a laptop's network connection to be shared by other computers and devices. For example, a user could connect her computer to the Internet and then turn her computer into an AP that shares the Internet connection with other wireless laptop devices, much like a hardware AP.

PTS: 1 REF: 60-61

10. Describe a PoE injector.

ANS:

PoE injector is a small, inexpensive device that can inject power into an Ethernet cable. These injectors can be endspan devices (such as a network switch enabled to provide power on each port) or a midspan device, which is connected inline to each end device and adds power to the line. Using PoE injectors, a standard, non–PoE-enabled Ethernet switch can be used to supply the data while the PoE injector provides the power.

PTS: 1 REF: 63