TRUE/FALSE

ANS: T PTS: 1 REF: 2 2. An ethical hacker is a person who performs most of the same activities a cracker does, but wit owner or company's permission. ANS: F PTS: 1 REF: 3 3. Even though the Certified Information Systems Security Professional (CISSP) certification is geared toward the technical IT professional, it has become one of the standards for many secur professionals. ANS: T PTS: 1 REF: 7 4. The SysAdmin, Audit, Network, Security (SANS) Institute offers training and IT security certification (GIAC). ANS: T PTS: 1 REF: 8 5. All states look at port scanning as noninvasive or nondestructive in nature and deem it legal. ANS: F PTS: 1 REF: 11 MULTIPLE CHOICE 1. In a(n), the tester does more than attempt to break in; he or she also analyzes the companisecurity policy and procedures and reports any vulnerabilities to management. a. penetration test					
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experienced hackers refer to as					
a. script kiddiesb. repetition monkeysc. packet sniffersd. crackers					
ANS: A PTS: 1 REF: 3					
 4. The U.S. Department of Justice labels all illegal access to computer or network systems as " a. cracking					

	ANS: B	PTS:	1	REF:	3	
5.	to carry out network a. kiddies			c.	mputer programs or in Perl or the C language scripts	
	b. packets			d.	crackers	
	ANS: C	PTS:	1	REF:	3	
6.	The collection of too a "". a. black box	ls for co	onducting vuln	·	assessments and attacks is sometimes referred to as gray box	
	b. white box				tiger box	
	ANS: D	PTS:	1	REF:	4	
7.	Penetration testers and security testers usually have a laptop computer configured with and hacking tools.					
	a. multiple OSsb. tiger boxes				packet sniffers script kiddies	
	ANS: A	PTS:	1	REF:	4	
8.	An April 2009 article them to secure the na a. crackers b. IT professionals			c.	he federal government is looking for to pay hackers security testers	
	ANS: C	PTS:	1	REF:	4	
9.		nd intru	sion detection	systems running c.	work diagram showing all the company's routers, s (IDSs) or give the tester a floor plan detailing the on these systems. red box gray box	
	ANS: B	PTS:	1	REF:	4	
10.				describe c.	o staff that penetration testing is being conducted, what technologies the company is using. black box red box	
	ANS: C	PTS:	1	REF:	5	
11.	a. CompTIA Securi b. OSSTMM Profes c. Certified Informa d. Certified Ethical	ion call ty+ ssional s ation Sy Hacker	ed Security Tester stems Security (CEH)	· (OPST / Profes:	sional (CISSP)	
	ANS: D	PTS:	1	REF:	6	
12.	Currently, the CEH e familiar.	xam is	based on	domain	s (subject areas) with which the tester must be	

	a. 11 b. 22			31 41		
	ANS: B	PTS: 1	REF:	6		
13.	"" is not a doma a. Sniffers b. Social engineering	nin tested for the CEH	c.	Footprinting Red team testing		
	ANS: D	PTS: 1	REF:	6		
14.	a nonprofit organizatprofessionals.a. CompTIA Securb. OSSTMM Profe	ity+ ssional Security Tester ation Systems Security	rity trai			
	ANS: B	PTS: 1	REF:	7		
15.	security Certification a. Global Informati b. OSSTMM Profe	ns Consortium (ISC ²). ion Assurance Certifica ssional Security Tester ation Systems Security	ation (G (OPST			
	ANS: C	PTS: 1	REF:	7		
16.		on uses the Open Sourc zog, as its standardized	l metho c.	rity Testing Methodology Manual (OSSTMM), dology. CISSP GIAC		
	ANS: B	PTS: 1	REF:	7		
17.	 The disseminates research documents on computer and network security worldwide at no cost. a. International Council of Electronic Commerce Consultants (EC-Council) b. SysAdmin,Audit,Network, Security (SANS) Institute c. Institute for Security and Open Methodologies (ISECOM) d. International Information Systems Security Certifications Consortium (ISC²) 					
	ANS: B	PTS: 1	REF:	8		
18.	through a. Global Informati b. OSSTMM Profe	ion Assurance Certifica ssional Security Tester ation Systems Security	ation (C			
	ANS: A	PTS: 1	REF:	8		
19.	The Institute To	•	ost com	nmon network exploits and suggests ways of		

	b. CompTIA				ISECOM		
	ANS: A	PTS:	1	REF:	8		
20.	1999.	infamous o	cases are hacks		out by students, such as the eBay hack of		
	a. graduateb. high-school				college engineering		
	ANS: C	PTS:	1	REF:	10		
21.	A can be created actually present to			users joi	ining a chat session, even though a person isn't		
	a. byteb. packet				switch bot		
	ANS: D	PTS:	1	REF:	13		
СОМ	PLETION						
1.	In a(n) the weakest link in	that netw	, an ethical ork or one of i	l hacker ts syster	attempts to break into a company's network to find ms.		
	ANS: penetration	n test					
	PTS: 1	REF:	2				
2.	Those who break into systems to steal or destroy data are often referred to as						
	ANS: crackers						
	PTS: 1	REF:	3				
3.	In the company is using a	and is give	model, the n permission t	tester is to interv	told what network topology and technology the iew IT personnel and company employees.		
	ANS: white box						
	PTS: 1	REF:	4				
4.	The U.S. government now has a new branch of computer crime called						
	ANS: computer hacking and intellectual property (CHIP) CHIP						
	computer hacking	and intelle	ectual property				
	PTS: 1	REF:	13				
5.	Employees of a secthe client.	curity com	pany are prote	ected un	der the company's with		

ANS: contract

PTS: 1 REF: 15

MATCHING

Match each term with the correct statement below.

a. script f. packet monkey

b. red team g. hacker

c. black box modeld. packet monkeyh. gray box modeli. ethical hacker

e. IRC "bot"

- 1. Derogatory term referring to people who copy code from knowledgeable programmers instead of creating the code themselves.
- 2. the tester might get information about which OSs are used, but not get any network diagrams
- 3. copies code from knowledgeable programmers instead of creating the code himself/herself
- 4. set of instructions that runs in sequence to perform tasks on a computer system
- 5. sometimes employed by companies to perform penetration tests
- 6. puts the burden on the tester to find out what technologies the company is using
- 7. program that sends automatic responses to users, giving the appearance of a person being present on the other side of the connection
- 8. composed of people with varied skills who perform penetration tests
- 9. accesses a computer system or network without the authorization of the system's owner

1.	ANS:	D	PTS:	1	REF:	3
2.	ANS:	Н	PTS:	1	REF:	5
3.	ANS:	F	PTS:	1	REF:	3
4.	ANS:	A	PTS:	1	REF:	3
5.	ANS:	I	PTS:	1	REF:	2
6.	ANS:	C	PTS:	1	REF:	5
7.	ANS:	E	PTS:	1	REF:	13
8.	ANS:	В	PTS:	1	REF:	6
9.	ANS:	G	PTS:	1	REF:	3

SHORT ANSWER

1. Ethical hackers are employed or contracted by a company to do what illegal hackers do: break in. Why?

ANS:

Companies need to know what, if any, parts of their security infrastructure are vulnerable to attack. To protect a company's network, many security professionals recognize that knowing what tools the bad guys use and how they think enables them to better protect (harden) a network's security.

PTS: 1 REF: 2

2. In the context of penetration testing, what is the gray box model?

ANS:

The gray box model is a hybrid of the white and black box models. In this model, the company gives a tester only partial information. For example, the tester might get information about which OSs are used, but not get any network diagrams.

PTS: 1 REF: 5

3. Why are employees sometimes not told that the company is being monitored?

ANS:

If a company knows that it's being monitored to assess the security of its systems, employees might behave more vigilantly and adhere to existing procedures. Many companies don't want this false sense of security; they want to see how personnel operate without forewarning that someone might attempt to attack their network.

PTS: 1 REF: 5

4. List at least five domains tested for the Certified Ethical Hacker (CEH) exam.

ANS:

- Ethics and legal issues
- Footprinting
- Scanning
- Enumeration
- System hacking
- Trojan programs and backdoors
- Sniffers
- Denial of service
- Social engineering
- Session hijacking
- Hacking Web servers
- Web application vulnerabilities
- Web-based password-cracking techniques
- Structured Query Language (SQL) injection
- Hacking wireless networks
- Viruses and worms
- Physical security
- Hacking Linux
- Intrusion detection systems (IDSs), firewalls, and honeypots
- Buffer overflows
- Cryptography
- Penetration-testing methodologies

PTS: 1 REF: 6

5. What is the SANS Institute Top 20 list?

ANS:

One of the most popular SANS Institute documents is the Top 20 list, which details the most common network exploits and suggests ways of correcting vulnerabilities. This list offers a wealth of information for penetration testers or security professionals.

PTS: 1 REF: 8

6. Even though you might think you're following the requirements set forth by the client who hired you to perform a security test, don't assume that management will be happy with your results. Provide an example of an ethical hacking situation that might upset a manager.

ANS:

One tester was reprimanded by a manager who was upset that the security testing revealed all the logon names and passwords to the tester. The manager believed that the tester shouldn't know this information and considered stopping the security testing.

PTS: 1 REF: 14

7. Describe some actions which security testers cannot perform legally.

ANS:

Accessing a computer without permission, destroying data, or copying information without the owner's permission is illegal. Certain actions are illegal, such as installing worms or viruses on a computer network that deny users access to network resources. As a security tester, you must be careful that your actions don't prevent customers from doing their jobs. For example, DoS attacks should not be initiated on your customer's networks.

PTS: 1 REF: 14-15

8. Why is it hard for an ethical hacker to avoid breaking any laws?

ANS:

Because the job of an ethical hacker is fairly new, the laws are constantly changing. Even though a company has hired you to test its network for vulnerabilities, be careful that you aren't breaking any laws for your state or country. If you're worried that one of your tests might slow down the network because of excessive bandwidth use, that concern should signal a red flag. The company might consider suing you for lost time or monies caused by this delay.

PTS: 1 REF: 16

9. What are four different skills a security tester needs?

ANS:

- Knowledge of network and computer technology
- Ability to communicate with management and IT personnel
- An understanding of the laws that apply to your location
- Ability to apply the necessary tools to perform your tasks

PTS: 1 REF: 16

10. If being liked by others is important to you, you might want to consider a different profession than penetration testing. Why?

ANS:

If you're good at your job, many IT employees resent you discovering vulnerabilities in their systems. In fact, it's the only profession in which the better you do your job, the more enemies you make!

PTS: 1 REF: 17