Test Bank for Principles of Information Security 4th Edition by Whitman

Chapter 02: The Need for Security

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1.	Information security confidentiality at all	•	ry mission is to	ensure	e that systems and their contents retain their
	ANS: F	PTS:	1	REF:	41
2.	Information security	safegua	rds the technol	ogy ass	eets in use at the organization.
	ANS: T	PTS:	1	REF:	41
3.	A firewall is a mecha	anism th	at keeps certain	n kinds	of network traffic out of a private network.
	ANS: T	PTS:	1	REF:	42
4.	•	•			category of "theft," but is also often accompanied may also be placed within the category of "forces of
	ANS: F	PTS:	1	REF:	44
5.	Two watchdog organ	nizations	that investigat	e alleg	ations of software abuse: SIIA and NSA.
	ANS: F	PTS:	1	REF:	46
6.					marks and embedded code, copyright codes, and oftware media—have been used to enforce copyright
	ANS: T	PTS:	1	REF:	46
7.	A worm requires tha	t anothe	r program is ru	nning b	pefore it can begin functioning.
	ANS: F	PTS:	1	REF:	48
8.	A worm can deposit users who subsequen				ervers that the infected system can reach, so that fected.
	ANS: T	PTS:	1	REF:	48
9.	Attacks conducted by	y scripts	are usually un	predict	able.
	ANS: F	PTS:	1	REF:	53
10.	Expert hackers are exattempting to break i				who usually devote lots of time and energy to a systems.
	ANS: T	PTS:	1	REF:	53
11.	With the removal of	copyrig	ht protection, s	oftware	e can be easily distributed and installed.

	ANS: T			PTS:	1	REF: 44
1.	Intellectual property representation of those					ntrol over the tangible or virtual
MOD	IFIED TRUE/FALSI	E				
	ANS: T	PTS:	1	REF:	74	
20.	A timing attack involalgorithms.	lves the	interception of	crypto	graphic elemei	nts to determine keys and encryption
	ANS: T	PTS:	1	REF:	70	
19.						nent including passwords, the data full of sensitive data from
	ANS: T	PTS:	1	REF:	70	
18.	A mail bomb is a form	m of Do	oS.			
	ANS: F	PTS:	1	REF:	68	
17.	DoS attacks cannot b	e launc	hed against rou	iters.		
	ANS: T	PTS:	1	REF:	67	
16.	Organizations can us against easy-to-guess			ow pass	swords during	the reset process and thus guard
	ANS: F	PTS:	1	REF:	63	
15.	With electronic infor	mation	is stolen, the cr	rime is 1	readily apparer	nt.
	ANS: F	PTS:	1	REF:	61	
14.	Compared to Web sit public.	te defac	ement, vandali	sm with	nin a network i	s less malicious in intent and more
	ANS: T	PTS:	1	REF:	59	
13.						ongoing awareness activities.
	ANS: T	PTS:	•	REF:		A CE TO
12.					•	of the most dangerous threats, eyond the control of people.
	ANS: T	PTS:	1	REF:	56	

2.	The <u>macro</u> virus infects the key operating system files located in a computer's boot sector.
	ANS: F, boot
	PTS: 1 REF: 47
3.	Once a(n) <u>back door</u> has infected a computer, it can redistribute itself to all e-mail addresses found or the infected system.
	ANS: F virus worm
	PTS: 1 REF: 48
4.	A(n) <u>polymorphic</u> threat is one that over time changes the way it appears to antivirus software programs, making it undetectable by techniques that look for preconfigured signatures.
	ANS: T PTS: 1 REF: 49-50
5.	When voltage levels <u>surge</u> (experience a momentary increase), the extra voltage can severely damage or destroy equipment.
	ANS: F, spike
	PTS: 1 REF: 51
6.	The shoulder <u>looking</u> technique is used in public or semipublic settings when individuals gather information they are not authorized to have by looking over another individual's shoulder or viewing the information from a distance.
	ANS: F, surfing
	PTS: 1 REF: 52
7.	Hackers are "people who use and create computer software to gain access to information illegally."
	ANS: T PTS: 1 REF: 52
8.	Packet <u>kiddies</u> use automated exploits to engage in distributed denial-of-service attacks.
	ANS: F, monkeys
	PTS: 1 REF: 53
9.	The term <u>phreaker</u> is now commonly associated with an individual who cracks or removes software protection that is designed to prevent unauthorized duplication.
	ANS: F, cracker

	PTS: 1	REF: 56			
10.	Cyberterrorists h	ack systems to cond	act terrorist a	ctivities	via network or Internet pathways.
	ANS: T		PTS:	1	REF: 62
11.					es, worms, Trojan horses, and active Web
	ANS: T		PTS:	1	REF: 65
12.		of computing and net ed a brute crack attac			y every possible combination of options of
	ANS: F, force				
	PTS: 1	REF: 67			
13.		ail attack that is also ail to the target			ail spoof, in which an attacker routes large
	ANS: F, bomb				
	PTS: 1	REF: 70			
14.	Sniffers often wo	ork on TCP/IP netwo	rks, where th	ey're so	ometimes called <u>packet</u> sniffers.
	ANS: T		PTS:	1	REF: 70
15.	A(n) cookie can	allow an attacker to	collect inform	nation o	n how to access password-protected sites.
	ANS: T		PTS:	1	REF: 74
MUL	TIPLE CHOICE				
1.	a. Protecting thb. Enabling the	ne organization's abile safe operation of apile data the organization	ity to function plications im	n. olement	ey perform for an organization?
	ANS: D	PTS: 1	REF:	41	
2.		ated system of softw he entire information	infrastructur c.		odologies, and legal agreements that can be organization.
	ANS: B	PTS: 1	REF:	42	

3.	are software pactivated.	orograms	that hid	e their true nat	ure, and reveal their designed behavior only when
	a. Viruses b. Worms				Spam Trojan horses
	ANS: D	PTS:	1	REF:	48
4.	Which of the follow a. Netsky b. MyDoom	ving is an	examp	c.	norse program? Klez Happy99.exe
	ANS: D	PTS:	1	REF:	48
5.	As frustrating as vi	ruses and	worms	are, perhaps n	nore time and money is spent on resolving virus
	a. false alarmsb. power faults			c. d.	
	ANS: C	PTS:	1	REF:	50
6.	Web hosting servic known as a(n)		ıally arı	anged with an	agreement providing minimum service levels
	a. SSL b. SLA	- ·			MSL MIN
	ANS: B	PTS:	1	REF:	51
7.	Complete loss of po a. sag b. fault	ower for a	a mome	nt is known as c. d.	brownout
	ANS: B	PTS:	1	REF:	51
8.	Acts of can le premises or system a. bypass b. nature				trespass
	ANS: C	PTS:	1	REF:	52
9.	There are generally a. novice b. journeyman	two skill	levels	c.	expert and packet monkey professional
	ANS: A	PTS:	1	REF:	53
10.				organization c	which interfere with or disrupt systems to protest the or government agency. hackcyber cyberhack
	ANS: A	PTS:	1	REF:	61
11.		computer	progra	ms, and data w	d, politically motivated attacks against information, hich result in violence against noncombatant targets

	a. infoterrorisb. cyberterror				hacking cracking	
	ANS: B	PTS:	1	REF:	62	
12.	is any te knowledge. a. A bot	chnology that	t aids in		ormation about a person or organization without the Trojan	eir
	b. Spyware			d.	Worm	
	ANS: B	PTS:	1	REF:	65	
13.		file contains t	he hash	ed representati	ion of the user's password.	
	a. SLA				FBI	
	b. SNMP				SAM	
	ANS: D	PTS:	1	REF:	67	
14.			sends	-	of connection or information requests to a target.	
	a. denial-of-seb. distributed		vico		virus spam	
					•	
	ANS: A	PTS:	1	REF:	67	
15.	locations at the	same time.	a coord		of requests is launched against a target from many .	
	a. denial-of-seb. distributed		vice		virus spam	
					•	
	ANS: B	PTS:	1	REF:	67	
16.	participate in an		irected		ally by a transmitted command) by the attacker to	
	a. Drones				Zombies Servants	
	b. Helpers			u.	Servants	
	ANS: C	PTS:	1	REF:	67	
17.	them, and inser	ts them back		network.	rs (or sniffs) packets from the network, modifies	
	a. zombie-in-tb. sniff-in-the			c.	server-in-the-middle man-in-the-middle	
		PTS:	1			
	ANS: D	P13:	1	REF:	08	
18.	network.	king attack us	ses IP sp	_	ble an attacker to impersonate another entity on the	:
	a. WWWb. TCP			c. d.	FTP HTTP	
	ANS: B	PTS:	1	REF:	68	
19.	"4-1-9" fraud is	s an example	of a	attack		
1).	a. social engin		οι	анаск.	worm	
	b. virus	5		d.	spam	
	ANS: A	PTS:	1	REF:	70	

20.						URL (a Microsoft-devised type of URL) wh 4.0, the browser will crash.	ich is
	a. 64b. 128					2. 256 l. 512	
	ANS: C		PTS:	1	REF:	: 76	
COM	PLETION	I					
1.	A(n) an asset.			_ is an object, _l	person,	n, or other entity that represents an ongoing	danger to
	ANS: thr	eat					
	PTS: 1		REF:	43			
2.	-	on of softwa		ed intellectual p	roperty	ty is more commonly known as software	
	ANS: pir						
	PTS: 1		REF:	45			
3.	A comput	er virus cor	sists of	segments of co	de that	at perform actions	·-
	ANS: ma	alicious					
	PTS: 1		REF:	46			
4.	A(n)requiring	another pro	gram er	is a malicious	s progr	gram that replicates itself constantly, withou	t
	ANS: wo	orm					
	PTS: 1		REF:	47			
5.	A virus or componer	worm can nt in a system	have a pm, which	payload that ins ch allows the att	talls a(acker t	a(n) door or trap d r to access the system at will with special pr	oor ivileges.
	ANS: ba	ck					
	PTS: 1		REF:	50			
6.	A momen	tary low vo	ltage is	called a(n)		·	
	ANS: sag	g					
	PTS: 1		REF:	51			
7.						legal, for example, using a Web browser to	perform

	ANS:	intelligence				
	PTS:	1	REF:	52		
8.				employ techniques tha	at cross the threshold of wh	nat is legal or ethical, they
	ANS:	espionage				
	PTS:	1	REF:	51		
9.	The ex	kpert hacker so	metime	s is called	hacker.	
	ANS:	elite				
	PTS:	1	REF:	53		
10.	Script a syste			are hackers of limi	ted skill who use expertly	written software to attack
	ANS:	kiddies				
	PTS:	1	REF:	53		
11.	A(n) _ service			hacks the public tel	ephone network to make fr	ree calls or disrupt
	ANS:	phreaker				
	PTS:	1	REF:	56		
12.	ESD n	neans electrost	atic	·		
	ANS:	discharge				
	PTS:	1	REF:	58		
13.	A(n)_			is an act that takes a	dvantage of a vulnerability	y to compromise a
		lled system.				
		attack				
		1				
14.		t or are no lon			kness in a controlled system	m, where controls are not
	ANS:	vulnerability				
	PTS:	1	REF:	65		
15.	Attem	pting to revers	e-calcul	late a password is calle	d	_•
	ANS:	cracking				

	PTS:	1	REF:	67
16.	intrud		ges with	a technique used to gain unauthorized access to computers, wherein the n a source IP address that has been forged to indicate that the messages are
	ANS:	Spoofing		
	PTS:	1	REF:	68
17.			is u	unsolicited commercial e-mail.
	ANS:	Spam		
	PTS:	1	REF:	69
18.	In the convir	context of infor	rmation veal ac	is the process of using social skills to cess credentials or other valuable information to the attacker.
	ANS:	social enginee	ring	
	PTS:	1	REF:	70
19.	The tin	ming attack exp	olores tl	ne contents of a Web browser's
	ANS:	cache		
	PTS:	1	REF:	74
20.	A(n) _ buffer	than it is desig	ned to l	_ is an application error that occurs when more data is sent to a program nandle.
		overrun overflow		
	PTS:	1	REF:	76
SSA	Y			
1.	List at	least six gener	al categ	gories of threat.

ES

ANS:

Compromises to intellectual property

Software attacks

Deviations in quality of service Espionage or trespass Forces of nature

Human error or failure

Information extortion

Missing, inadequate, or incomplete Missing, inadequate, or incomplete controls

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Sabotage or vandalism

Theft

Technical hardware failures or errors

Technical software failures or errors

Technological obsolescence

PTS: 1 REF: 44

2. Describe viruses and worms.

ANS:

A computer virus consists of segments of code that perform malicious actions. This code behaves very much like a virus pathogen attacking animals and plants, using the cell's own replication machinery to propagate and attack. The code attaches itself to the existing program and takes control of that program's access to the targeted computer. The virus-controlled target program then carries out the virus's plan, by replicating itself into additional targeted systems.

A worm is a malicious program that replicates itself constantly, without requiring another program to provide a safe environment for replication. Worms can continue replicating themselves until they completely fill available resources, such as memory, hard drive space, and network bandwidth.

PTS: 1 REF: 46 - 47

3. Describe the capabilities of a sniffer.

ANS:

A sniffer is a program or device that can monitor data traveling over a network. Sniffers can be used both for legitimate network management functions and for stealing information from a network. Unauthorized sniffers can be extremely dangerous to a network's security, because they are virtually impossible to detect and can be inserted almost anywhere. This makes them a favorite weapon in the hacker's arsenal. Sniffers often work on TCP/IP networks, where they're sometimes called packet sniffers. Sniffers add risk to the network, because many systems and users send information on local networks in clear text. A sniffer program shows all the data going by, including passwords, the data inside files and screens full of sensitive data from applications.

PTS: 1 REF: 70