Guide to Computer Forensics and Investigations 4th Edition Nelson Test Bank

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Chapter 1: Computer Forensics and Investigations as a Profession

TR	TT	$\mathbf{F}/$	$\mathbf{F}A$	T	SF
		ו,יו	1 P		/ TIL

1.	By the 1970s, ele	ctronic crimes were	increasing, especially in the financial sector.						
	ANS: T	PTS: 1	REF: 6						
2.	To be a successful computing platform		investigator, you must be familiar with more than one						
	ANS: T	PTS: 1	REF: 8						
3.	Computer investi	Computer investigations and forensics fall into the same category: public investigations.							
	ANS: F	PTS: 1	REF: 10						
4.	The law of search	and seizure protect	s the rights of all people, excluding people suspected of c	rimes.					
	ANS: F	PTS: 1	REF: 11						
5.		roves and signs a se ed by the warrant.	arch warrant, it's ready to be executed, meaning you can	collect					
	ANS: T	PTS: 1	REF: 15						
MUL	TIPLE CHOICE								
1.	 The FBI was formed in 1984 to handle the increasing number of cases involving digital evidence. a. Federal Rules of Evidence (FRE) b. Department of Defense Computer Forensics Laboratory (DCFL) c. DIBS d. Computer Analysis and Response Team (CART) 								
	ANS: D	PTS: 1	REF: 2						
2.		erver crash, for exam	from a computer that was deleted by mistake or lost duriple. c. Computer forensics d. Disaster recovery REF: 4	ing a					
2									
3.	off-site monitoring. Computer for b. Data recovery	ng. rensics	using backups, uninterruptible power supply (UPS) devi c. Disaster recovery d. Network forensics	.ces, and					
	ANS: C	PTS: 1	REF: 4						
4.		nce related to an inci	ns and conducts forensic analysis of systems suspected or dent or a crime. c. incident response	f					

	b. computer investigations			d.	litigation
	ANS: B	PTS:	1	REF:	5
5.	By the early 1990s, a. IACIS b. FLETC	the	_ introduced tra	c.	n software for forensics investigations. CERT DDBIA
	ANS: A	PTS:	1	REF:	6
6.	corporations face.	west,	meets mont	-	iscuss problems that law enforcement and
	a. IACISb. CTIN				FTK FLETC
	ANS: B	PTS:	1	REF:	8
7.	In a case, a sus a. corporate b. civil	spect is t	ried for a crim		ense, such as burglary, murder, or molestation. criminal fourth amendment
	ANS: C	PTS:	1	REF:	11
8.	In general, a crimina a. litigation b. allegation	al case fo	ollows three sta	c.	e complaint, the investigation, and the blotter prosecution
	ANS: D	PTS:	1	REF:	12
9.	that a crime has been a. litigation			c.	akes a(n), an accusation or supposition of fact blotter
	b. allegation ANS: B	PTS:	1	REF:	prosecution
10					
10.	prosecuting attorney a. blotter b. exhibit report			ıbmit a(ı c.	formation to support a search warrant, the n) litigation report affidavit
	ANS: D	PTS:	1	REF:	14
11.	It's the investigator' support the allegation a. litigation b. prosecution	_	-	t. c.	idavit, which must include (evidence) that exhibits reports
	ANS: C	PTS:	1	REF:	14
12.	The affidavit must ba. notarized b. examined	eı	ınder sworn oa	c.	rify that the information in the affidavit is true. recorded challenged
	ANS: A	PTS:	1	REF:	-
13.					a business to conduct internal investigations.

	a. litigation pathb. allegation resource	ce			line of allegation line of authority			
	ANS: D	PTS:	1	REF:	16			
14.		rk (VPN)) and informs (end use	or connects to the company intranet, network, or users that the organization reserves the right to inspect			
	a. warning banner	or ====			line of authority			
	b. right of privacy			d.	right banner			
	ANS: A	PTS:	1	REF:	16			
15.	A(n) is a persor	n using a	computer to p	erform	routine tasks other than systems administration.			
	a. complainant		т		end user			
	b. user banner			d.	investigator			
	ANS: C	PTS:	1	REF:	16			
16.	Without a warning basystems and network			t have a	an assumed when using a company's computer			
	a. line of authority			c.	line of privacy			
	b. right of privacy			d.	line of right			
	ANS: B	PTS:	1	REF:	16			
17.	In addition to warnin specify a(n) wh a. authorized requests. authority of line	o has the		duct in c.	y's rights of computer ownership, businesses should vestigations. line of right authority of right			
	ANS: A	PTS:	1	REF:	18			
18	Most computer inves	tigations	s in the private	sector i	involve			
10.	a. e-mail abuse	0.500.010	and properties		Internet abuse			
	b. misuse of compu	ting asse	ets	d.	VPN abuse			
	ANS: B	PTS:	1	REF:	19			
19.	Corporations often for investigative agent do a. silver-tree			w enfor	n is what happens when a civilian or corporate rement officer. silver-platter			
	b. gold-tree				gold-platter			
	ANS: C	PTS:	1	REF:	20			
20.	Your as a comp credibility.	outer inve	estigation and	forensio	es analyst is critical because it determines your			
	a. professional police	cy		c.	line of authority			
	b. oath			d.	professional conduct			
	ANS: D	PTS:	1	REF:	21			
21.	Maintaining me	eans you	must form and	l sustai	n unbiased opinions of your cases.			
	a. confidentiality	.			integrity			
	b. objectivity				credibility			

ANS:	В	PTS:	1	REF:	21
mus.	D	1 15.	1	ILLI.	41

COMPLETION

1.	involves obtaining and analyzing digital information for use as evidence in civil, criminal, or administrative cases.							
	ANS:	Computer fore	ensics					
	PTS:	1	REF:	2				
2.	Theeveryor	ne's rights to b	e secur	to the U.S. Constitution (and each state's constitution) protects e in their person, residence, and property from search and seizure.				
	ANS:	Fourth Amend	lment					
	PTS:	1	REF:	2				
3.				refers to large corporate computing systems that might include ndent systems.				
	ANS: enterprise network environment							
	PTS:	1	REF:	4				
4.		you work in the ations and netw		group, you test and verify the integrity of standalone rvers.				
	ANS:	vulnerability a	ssessm	ent and risk management				
	PTS:	1	REF:	5				
5.	The previou			provides a record of clues to crimes that have been committed				
	ANS: 1	police blotter						
	PTS:	1	REF:	13				

MATCHING

Match each item with a statement below:

f. HTCIA

a. Computer forensicsb. Network forensics

g. Affidavit

c. Litigation

h. Industrial espionage

d. Xtree Gold

i. Line of authority

- e. Case law
- 1. the legal process of proving guilt or innocence in court
- 2. recognizes file types and retrieves lost or deleted files
- 3. investigates data that can be retrieved from a computer's hard disk or other storage media

- 4. sworn statement of support of facts about or evidence of a crime that is submitted to a judge to request a search warrant before seizing evidence
- 5. allows legal counsel to use previous cases similar to the current one because the laws don't yet exist
- 6. specifies who has the legal right to initiate an investigation, who can take possession of evidence, and who can have access to evidence
- 7. organization that exchanges information about techniques related to computer investigations and security
- 8. yields information about how a perpetrator or an attacker gained access to a network
- 9. involves selling sensitive or confidential company information to a competitor

1.	ANS:	C	PTS:	1	REF:	5
2.	ANS:	D	PTS:	1	REF:	6
3.	ANS:	A	PTS:	1	REF:	3
4.	ANS:	G	PTS:	1	REF:	14
5.	ANS:	E	PTS:	1	REF:	8
6.	ANS:	I	PTS:	1	REF:	16
7.	ANS:	F	PTS:	1	REF:	9
8.	ANS:	В	PTS:	1	REF:	3
9.	ANS:	H	PTS:	1	REF:	15

SHORT ANSWER

1. Briefly describe the triad that makes up computer security.

ANS:

Investigators often work as a team to make computers and networks secure in an organization. The computer investigations function is one of three in a triad that makes up computing security. In an enterprise network environment, the triad consists of the following parts:

- * Vulnerability assessment and risk management
- * Network intrusion detection and incident response
- * Computer investigations

PTS: 1 REF: 4

2. Briefly describe the main characteristics of public investigations.

ANS:

Public investigations involve government agencies responsible for criminal investigations and prosecution. Government agencies range from local, county, and state or provincial police departments to federal regulatory enforcement agencies. These organizations must observe legal guidelines such as Article 8 in the Charter of Rights of Canada, the Criminal Procedures Act of the Republic of Namibia, and U.S. Fourth Amendment issues related to search and seizure rules.

PTS: 1 REF: 10|11

3. Briefly describe the main characteristics of private investigations.

ANS:

Private or corporate investigations deal with private companies, non-law-enforcement government agencies, and lawyers. These private organizations aren't governed directly by criminal law or Fourth Amendment issues, but by internal policies that define expected employee behavior and conduct in the workplace. Private corporate investigations also involve litigation disputes. Although private investigations are usually conducted in civil cases, a civil case can escalate into a criminal case, and a criminal case can be reduced to a civil case. If you follow good forensics procedures, the evidence found in your investigations can easily make the transition between civil and criminal cases.

PTS: 1 REF: 11

4. What questions should an investigator ask to determine whether a computer crime was committed?

ANS:

In a criminal case, a suspect is tried for a criminal offense, such as burglary, murder, or molestation. To determine whether there was a computer crime, an investigator asks questions such as the following: What was the tool used to commit the crime? Was it a simple trespass? Was it a theft, a burglary, or vandalism? Did the perpetrator infringe on someone else's rights by cyberstalking or e-mail harassment?

PTS: 1 REF: 11|12

5. What are the three levels of law enforcement expertise established by CTIN?

ANS:

To differentiate the training and experience law officers have, CTIN has established three levels of law enforcement expertise:

- * Level 1—Acquiring and seizing digital evidence, normally performed by a street police officer.
- * Level 2—Managing high-tech investigations, teaching investigators what to ask for, and understanding computer terminology and what can and can't be retrieved from digital evidence. The assigned detectives usually handle the case.
- * Level 3—Specialist training in retrieving digital evidence, normally performed by a data recovery or computer forensics expert, network forensics expert, or Internet fraud investigator. This person might also be qualified to manage a case, depending on his or her background.

PTS: 1 REF: 13

6. What are some of the most common types of corporate computer crime?

ANS:

Corporate computer crimes can involve e-mail harassment, falsification of data, gender and age discrimination, embezzlement, sabotage, and industrial espionage, which involves selling sensitive or confidential company information to a competitor. Anyone with access to a computer can commit these crimes.

PTS: 1 REF: 15

7. What is embezzlement?

ANS:

Embezzlement is a common computer crime, particularly in small firms. Typically, the owner is busy and trusts one person, such as the office manager, to handle daily transactions. When the office manager leaves, the owner discovers that some clients were overbilled or others were not billed at all, and money is missing. Rebuilding the paper and electronic trail can be tedious. Collecting enough evidence to press charges might be beyond the owner's capabilities.

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PTS: 1 REF: 15

8. Briefly describe corporate sabotage.

ANS:

Corporate sabotage is most often committed by a disgruntled employee. The employee decides to take a job at a competitor's firm and collects critical files on a disk or thumb drive before leaving. This type of crime can also lead to industrial espionage, which increases every year.

PTS: 1 REF: 15

9. What text can be used in internal warning banners?

ANS:

Depending on the type of organization, the following text can be used in internal warning banners:

- * Access to this system and network is restricted.
- * Use of this system and network is for official business only.
- * Systems and networks are subject to monitoring at any time by the owner.
- * Using this system implies consent to monitoring by the owner.
- * Unauthorized or illegal users of this system or network will be subject to discipline or prosecution.

PTS: 1 REF: 17

10. Mention examples of groups that should have direct authority to request computer investigations in the corporate environment.

ANS:

Examples of groups that should have direct authority to request computer investigations in the corporate environment include the following:

- * Corporate Security Investigations
- * Corporate Ethics Office
- * Corporate Equal Employment Opportunity Office
- * Internal Auditing
- * The general counsel or Legal Department

PTS: 1 REF: 18