CHAPTER 2: INFORMATION SECURITY PRINCIPLES OF SUCCESS

Multiple Choice:

1.		Given enough time, tools, inclination, and, measure.	a hacker can break through any security		
	A.	A. talent			
	B.				
	C. intelligence				
	D.	assets			
Answer: B		Reference: Principle 1: There Is No Such Thing	Difficulty: moderate		
2.		In 2003 the Whitworth Gallery's layered security system in	ncluded all of the following except:		
A. Close		Closed-circuit television			
	B.	Alarm systems			
	C.	Electronic motion sensors			
D.		Rolling patrols.			
Answer: C		Reference: Principle 1: There Is No Such Thing	Difficulty: moderate		
3.		Which of the following is not a common class of ratings fo	or safes?		
	A.				
		B-rate			
		B-rate C-rate			
	В.				
	В. С.	C-rate			
Answer: D	B. C. D.	C-rate ULTL-30	Difficulty: moderate		
Answer: D	B. C. D.	C-rate ULTL-30 ULTL-40	Difficulty: moderate		
	B. C. D.	C-rate ULTL-30 ULTL-40 Reference: Principle 1: There Is No Such Thing	Difficulty: moderate		
	B.C.D.	C-rate ULTL-30 ULTL-40 Reference: Principle 1: There Is No Such Thing The goals of information security measures include:	Difficulty: moderate		
	B. C. D.	C-rate ULTL-30 ULTL-40 Reference: Principle 1: There Is No Such Thing The goals of information security measures include: Protecting confidentiality of data	Difficulty: moderate		

D. All of the above are goals **Answer:** D **Reference:** Principle 2: The Three Security Goals **Difficulty:** moderate 5. IS professionals who create a plan to protect a computer system consider all of the following in the planning process except: A. Defining the structural composition of data B. Protecting the confidentiality of data C. Preserving the integrity of data D. Promoting the availability of data for authorized use **Reference:** Principle 2: The Three Security Goals **Difficulty:** moderate **Answer:** A 6. Synonyms for confidentiality include all of the following except: A. privacy B. secrecy C. integrity D. discretion **Answer:** C **Reference:** FYI: Confidentiality by Another Name **Difficulty:** moderate 7. Which of the following is NOT a goal of an integrity model security system? A. Preventing unauthorized users from modifying data or programs B. Verifying data consistency for internal and external programs C. Preventing authorized users form making unauthorized modifications D. Maintaining internal and external consistency of data and programs **Answer:** B **Reference:** Integrity Models **Difficulty:** moderate 8. Common availability challenges do NOT include which of the following? A. Equipment failure B. Denial of service C. Rapid spread of viruses

Answer: C Reference: Availability Models Difficulty: moderate

D. Loss of information system due to natural disaster or human action.

9.	Which of the following is NOT an activity designed to preserve information system availability?			
A	A. Grant access to authorized personnel			
В	Apply encryption to information sent over the Internet			
C	C. Develop a disaster recovery plan			
D	2. All of the above preserve system availability.			
Answer: D	Reference: Availability Models	Difficulty: moderate		
10.	Layered security is also referred to as:			
Α				
В	. Defense in depth			
C	. Multi-system security			
D	None of the above.			
Answer: B	Reference: Principle 3: Defense in Depth	Difficulty: moderate		
11.	Overlapping layers provide all of the following elements necess	ary to secure assets except:		
A	Direction			
В	B. Response			
C. Detection				
Г	Prevention			
Answer: A	Reference: Principle 3: Defense in Depth	Difficulty: moderate		
12.	Defense in depth means that security devices are layered in a and responds to attacks on systems.	series that, detects,		
Α	deflects			
В	. denies			
C	. defends			
Г	o. prevents			
Answer: D	Reference: Principle 3: Defense in Depth	Difficulty: moderate		
13. Which of the following statements about Principle 4 is false?				
A. In exchange for worthless goods, people tend to give up credentials.		tials.		

	B.	The organizers of Infosecurity Europe 2003 found that 75% of survey respondents revealed information immediately.			
	C.	Today's virus writers are not very sophisticated.			
D.		It is easy to fool people into spreading viruses.			
Answer: C		Reference: Principle 4: When Left on Their Own Difficulty: moderate			
14.		Avoid phishing, ID theft, and monetary loss by taking all of the following steps except:			
	A.	Recognize the signs of fraud			
	B.	Ignore links embedded in e-mail messages			
	C.	Follow advice of financial services provider			
	D.	Keep virus software current.			
Answer: D		Reference: In Practice: Phishing for Dollars Difficulty: moderate			
15	•	IS principle five states that security depends on these requirements:			
	A.	Functional and assurance			
	B.	Verification and validation			
	C.	Availability and integrity			
	D.	Usability and interface.			
Answer: A		Reference: Principle 5: Computer Security Depends on Requirements Difficulty: moderate			
16		Which of the following questions is NOT answered by the functional and assurance requirements as specified by Principle 5?			
	A.	Does the system do the right things?			
	B.	Does the system do the right things in the right way?			
	C.	Both of the above are answered			
	D.	Neither of the above are answered.			
Answer: C		Reference: Principle 5: Computer Security Depends on Requirements Difficulty: moderate			
17		Software developers often lack the and needed to test and break their software.			
	A.	Wherewithal, motivation			
	B.	Money, time			

(Expertise, resources			
I	D. Qualifications, experience.			
Answer: A Reference: Principle 5: Computer Security Depends on Requirements Difficult				
18.	Which of the following is true for Principle six?			
A. There is no such thing as absolute security.				
I	3. Risk management provides security.			
(C. Security through obscurity is not an answer.			
I	D. Security has no finite limit.			
Answer: C	Reference: Principle 6: Security Through Obscurity Difficulty: moderate			
19.	One school of thought says that if do not know how software is secured, security is better.			
A	A. hackers			
I	B. crackers			
(users			
I	D. developers			
Answer: A	Reference: Principle 6: Security Through Obscurity Difficulty: moderate			
20.	What does security through obscurity mean?			
A	A. Security details are not published.			
I	Little known security techniques are used.			
(C. Hiding details secures the system.			
I	D. Security details are encrypted.			
Answer: C	Reference: Principle 6: Security Through Obscurity Difficulty: moderate			
21.	To gain confidence in software products both and answers are needed.			
I	A. risk, process			
I	3. integrity, availability			
(C. functional, assurance			
I	D. verification, validation.			

Answer: D **Reference:** Principle 5: Computer Security Depends **Difficulty:** moderate 22. More dangerous than not addressing security is obscuring security because it leads to a: A. False sense of security B. Higher level of security C. Reduced level of security D. Complete breakdown of security. **Answer:** A **Reference:** Principle 6: Security Through Obscurity **Difficulty:** moderate 23. Central themes to securing information systems are: A. Risk consequences and risk assessment B. Risk acceptance and risk mitigation C. Risk analysis and risk management D. None of the above. **Answer:** C **Reference:** Principle 7: Security = Risk Management **Difficulty:** moderate 24. Which of the following is NOT an outcome of risk analysis? A. Risks are countered B. Insurance against loss is acquired C. Risk is accepted and consequences are managed D. Risk is not accepted and consequences do not exist. **Answer:** D **Reference:** Principle 7: Security = Risk Management **Difficulty:** moderate 25. The factors used to determine degree of risk include: A. Determining the consequence of loss B. Determining the likelihood that loss will occur C. Both of the above D. None of the above. **Answer:** C **Reference:** Principle 7: Security = Risk Management **Difficulty:** moderate Which of the following actions may be required after a high risk rating is determined? **26.** A. Immediate action required

В.	Senior management attention needed		
C.	. Manage by routine procedures		
D.	Management responsibility must be specified		
Answer: B	Reference: Principle 7: Security = Risk Management Difficulty: moderate		
27.	The unique security issues and considerations of every system make it crucial to understand all of the following except:		
A.	Adherence to security standards		
В.	The security skills of the development teams		
C.	What hardware and software is used to deploy the system		
D.	The specific nature of data the system maintains.		
Answer: A	Reference: Principle 7: Security = Risk Management Difficulty: moderate		
28.	Which of the following is NOT considered a pillar of security?		
A.	People		
В.	3. Process		
C.	Disclosure		
D.	Technology		
Answer: C	Reference: Principle 11 People, Process, and Technology Difficulty: moderate		
Fill in the Blan	nk:		
29.	The first principle of information security says that a hacker can break any security system given enough time, inclination, tools, and		
Answer: skills	Reference: Principle 1: There Is No Such Thing Difficulty: moderate		
30.	The Whitworth Gallery in Manchester England used a security system in 2003.		
Answer: layer	Reference: Principle 1: There Is No Such Thing Difficulty: moderate		
31.	One goal of information security is to promote the of data for authorized use.		
Answer: availa	Reference: Principle 2: The Three Security Goals Difficulty: moderate		
32.	Confidentiality, integrity, and availability or the form the basis of all security programs.		

Answer	: CIA	triad	Reference: Principle 2: The Three Security Goals	Difficulty: moderate
	33.	Confidentiality of	controls are user IDs and	
Answer	: passv	vords	Reference: Caution: Confidentiality Models	Difficulty: moderate
	34.	Keeping data pu model.	are and trustworthy by protecting system data is the hallm	nark of the
Answer	: integ	rity	Reference: Integrity Model	Difficulty: moderate
	35.	During emergen	cies or disasters models keep data and reso	ources available.
Answer	: avail	ability	Reference: Availability Models	Difficulty: moderate
	36.	Periodically test	the security of an operating system to uncover any new _	·
Answer	: vulne	erabilities	Reference: Availability Models	Difficulty: moderate
	37.	-	security system, each mechanism is thoroughly tested ystem is suitable for operation.	before to
Answer	: deplo	pyment	Reference: Principle 3: Defense in Depth	Difficulty: moderate
	38.		ched designed with security in mind in ect from intruders.	cludes routers, firewalls,
Answer	: netw	ork	Reference: Principle 3: Defense in Depth	Difficulty: moderate
	39.	As a general rule	e, people give up the that technologies use	to secure systems.
Answer	: secre	ts	Reference: Principle 4: When Left on Their Own	Difficulty: moderate
	40.	An example of h	now easily people are duped into breaching security is	·
Answer	: phish	ing	Reference: In Practice: Phishing for Dollars	Difficulty: moderate
	41.		es that theanswer the questions: Does e system do the right things in the right way?	the system do the right
Answer	: requi	rements	Reference: Principle 5: Computer Security Depends On	Difficulty: moderate
	42.		needs both verification and validation answers, most stems stop at	commercial off-the-shelf
Answer	: verif	cation	Reference: Principle 5: Computer Security Depends On	Difficulty: moderate
	43.	Spending more	on securing on asset than the intrinsic value of t	he asset is a waste of
Answer	: resou	irces	Reference: Principle 7: Security = Risk Management	Difficulty: moderate
	44.	The Security Co	ontrol types include preventative,, and re	sponsive.

Answer: detective moderate		Reference: Principle 8: The Three Types of Security Controls Difficulty:		
45.	Security requestionale.	ests are rarely if spending resources are justified with solid business		
Answer: deni	ied	Reference: Principle 10: Fear, Uncertainty, and Doubt Difficulty: moderate		
46.	The three pil	ars of security are:, process, and technology.		
Answer: peopmoderate	ple	Reference: Principle 11: People, Process, and Technology Difficulty:		
47.	In order for security vuln	administrators to defend systems they must have specific of any erability.		
Answer: know	wledge	Reference: In Practice: To Disclose or Not to Disclose Difficulty: moderate		
48.	People,	, and technology must work together to secure systems.		
Answer: proc moderate	cess	Reference: In Practice: How People, Process, and Technology Difficulty:		
Matching:				
49.	Match the fo	llowing terms to their meanings:		
I. P	rinciple 1	A. Defense in depth		
II. P	rinciple 2	B. Functional and assurance		
III. P	rinciple 3	C. confidentiality, integrity, availability		
IV. P	rinciple 4	D. No absolute security		
V. P	rinciple 5	E. Unsupervised people make bad decisions		

Reference: Information Security Principles

Answer: D C A E B

Difficulty: moderate

50. Match the following terms to their meanings:

I. Principle 6 A. Risk Management

II. Principle 7 B. No fear, uncertainty, or doubt

III. Principle 8 C. Complexity is the enemy

IV. Principle 9 D. Obscurity not an answer

V. Principle 10 E. Preventative, detective, responsive

Answer: D A E C B **Reference:** Information Security Principles **Difficulty:** moderate

51. Match the following terms to their meanings:

I. Dual control A. Load too much information into the input area

II. Separation of duties B. One person acts as a countermeasure to another

III. Buffer overflow C. Cookbook on how to take advantage of vulnerability

IV. Exploit D. Has characteristics of skill and will

V. Attacker E. No one person has the ability to control a security activity

Answer: B E A C D **Reference:** Principle: 7 Security = Risk Management (and Principle 11) **Difficulty:** moderate