Computer Security: Principles and Practice, 4th Edition Chapter 1

Chapter 1 – Computer Systems Overview

TRUE/FALSE QUESTIONS:

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T	F	1. Threats are attacks carried out.
T	F	2. Computer security is protection of the integrity, availability, and confidentiality of information system resources.
T	F	3. Data integrity assures that information and programs are changed only in a specified and authorized manner.
T	F	4. Availability assures that systems works promptly and service is not denied to authorized users.
T	F	5. The "A" in the CIA triad stands for "authenticity".
T	F	6. The more critical a component or service, the higher the level of availability required.
T	F	7. Computer security is essentially a battle of wits between a perpetrator who tries to find holes and the administrator who tries to close them.
T	F	8. Security mechanisms typically do not involve more than one particular algorithm or protocol.
T	F	9. Many security administrators view strong security as an impediment to efficient and user-friendly operation of an information system.
T	F	10. In the context of security our concern is with the vulnerabilities of system resources.
T	F	11. Hardware is the most vulnerable to attack and the least susceptible to automated controls.
T	F	12. Contingency planning is a functional area that primarily requires computer security technical measures.
T	F	13. X.800 architecture was developed as an international standard and focuses on security in the context of networks and communications.
T	F	14. The first step in devising security services and mechanisms is to develop a security policy.
T	F	15. Assurance is the process of examining a computer product or system with respect to certain criteria.

MULTIPLE CHOICE QUESTIONS:

1.		assures that individuals control or influence what information related to them may be collected and stored and by whom and to whom that information may be disclosed.		
	A.	Availability	В.	System Integrity
	C.	Privacy	D.	Data Integrity
2.		assures that a system performs its see from deliberate or inadvertent to		<u> =</u>
	A.	System Integrity	B.	Data Integrity
	C.	Availability	D.	Confidentiality
3.	A loss of _	is the unauthorized dis	clos	sure of information.
	A.	confidentiality	В.	integrity
	C.	authenticity	D.	availability
4.	A level breach of security could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.			
	A.	low	В.	normal
	C. :	moderate	D.	high
5.	5. A flaw or weakness in a system's design, implementation, or operation and management that could be exploited to violate the system's security policy is a(n)			-
	A.	countermeasure	В.	vulnerability
	C.	adversary	D.	risk
6.		on system security that derives from attempt to evade security services $a(n)$		_
	A.	risk	B.	asset
	C.	attack	D.	vulnerability

7.	A(n) is an action, device, procedure, or technique that reduces a threat, a vulnerability, or an attack by eliminating or preventing it, by minimizing the harm it can cause, or by discovering and reporting it so that correct action can be taken.			
	A.	attack	B. countermeasure	
	C.	adversary	D. protocol	
8.		is an attempt to learn or mainot affect system resources.	ke use of information from the system	
	A.	passive attack	B. inside attack	
	C.	outside attack	D. active attack	
9.	Masquerac	le, falsification, and repudiation ar threat consequences.	e threat actions that cause	
	A.	unauthorized disclosure	B. deception	
	C.	disruption	D. usurpation	
10.		nction in which sensitive data are d	lirectly released to an unauthorized	
	A.	corruption	B. disruption	
	C.	intrusion	D. exposure	
11.		ple of is an attempt by by posing as an authorized user.	y an unauthorized user to gain access	
	A.	masquerade	B. interception	
	C.	repudiation	D. inference	
12.		prevents or inhibits the nor cations facilities.	mal use or management of	
	A.	passive attack	B. traffic encryption	
	C.	denial of service	D. masquerade	
13.	Aby an orga		ses the security of information owned	
	A.	security mechanism	B. security attack	
	C.	security policy	D. security service	

14. The assurance that data received are exactle entity is	y as sent by an authorized				
A. authentication	B. data confidentiality				
C. access control	D. data integrity				
15 is the insertion of bits into gaps in a data stream to frustrate traffic analysis attempts.					
A. Traffic padding	B. Traffic routing				
C. Traffic control	D. Traffic integrity				
SHORT ANSWER QUESTIONS:					
1 is the protection afforded to an automated information system in order to attain the applicable objectives of preserving the integrity, availability, and confidentiality of information system resources.					
2. Confidentiality, Integrity, and Availability form	what is often referred to as the				
3. A loss of is the disruption of access to or use of information or an information system.					
4. In the United States, student grade information is an asset whose confidentiality is regulated by the					
5. A(n) is a threat that is carried out and, if successful, leads to an undesirable violation of security, or threat consequence.					
6. A(n) is any means taken to deal with a security attack.					
7. Misappropriation and misuse are attacks that result in threat consequences.					
8. The assets of a computer system can be category communication lines and networks, and					
9. Release of message contents and traffic analysis	s are two types of attacks.				
10. Replay, masquerade, modification of messages attacks.	s, and denial of service are example of				
11. Establishing, maintaining, and implementing plans for emergency response, backup operations, and post disaster recovery for organizational information systems to ensure the availability of critical information resources and continuity of operations in emergency situations is a plan.					

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operations, o organization	assessment is periodically assessing the risk to o organizational assets, and individuals, resulting from the dal information systems and the associated processing, stop or organizational information.	operation of
13. The OS	I security architecture focuses on security attacks,	, and services.
that allows a	is data appended to, or a cryptographic transformation recipient of the data unit to prove the source and integrit against forgery.	
15. Security	y implementation involves four complementary courses of	f action: prevention,