Computer Security Principles and Practice 4th Edition Stallings Test Bank

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Chapter 1 – Computer Systems Overview

TRUE/FALSE QUESTIONS:

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

2. _____assures that a system performs its intended function in an unimpaired manner, free from deliberate or inadvertent unauthorized manipulation of the system.

A. Sys	stem Integrity	B. Data Integrity
C. Ava	ailability	D. Confidentiality

3. A loss of ______ is the unauthorized disclosure of information.

A. confidentiality	B. 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

 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	B. vulnerability
C.	adversary	D. risk

 An assault on system security that derives from an intelligent act that is a deliberate attempt to evade security services and violate the security policy of a system is 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. A(n) ______ is an attempt to learn or make use of information from the system that does not affect system resources.

A. passive attack	B. inside attack
C. outside attack	D. active attack

9. Masquerade, falsification, and repudiation are threat actions that cause threat consequences.

A. unauthorized disclosure	B. deception
C. disruption	D. usurpation

10. A threat action in which sensitive data are directly released to an unauthorized entity is _____.

A. corruption	B. disruption
C. intrusion	D. exposure

11. An example of ______ is an attempt by an unauthorized user to gain access to a system by posing as an authorized user.

A.	masquerade	B.	interception
C.	repudiation	D.	inference

12. The _____ prevents or inhibits the normal use or management of communications facilities.

A.	passive attack	B.	traffic encryption
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- C. denial of service D. masquerade
- 13. A ______ is any action that compromises the security of information owned by an organization.

A.	security mechanism	B.	security attack

C. security policy D. security service

14. The assurance that data received are exactly as sent by an authorized entity is _____.

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
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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 categorized as hardware, software, communication lines and networks, and _____.

9. Release of message contents and traffic analysis are two types of ______ attacks.

10. Replay, masquerade, modification of messages, and denial of service are example of ______ attacks.

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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Chapter 1

12. A(n) ______ assessment is periodically assessing the risk to organizational operations, organizational assets, and individuals, resulting from the operation of organizational information systems and the associated processing, storage, or transmission or organizational information.

13. The OSI security architecture focuses on security attacks, ______, and services.

14. A _______ is data appended to, or a cryptographic transformation of, a data unit that allows a recipient of the data unit to prove the source and integrity of the data unit and protect against forgery.

15. Security implementation involves four complementary courses of action: prevention, detection, response, and _____.