Network Security Essentials Applications and Standards 5th Edition Stallings Test Bank

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CHAPTER 1: INTRODUCTION

TRUE OR FALSE

1. T T 2. 3. F T 4. T 5. F 6. F 7. 8. T 9. F 10. T 11. F 12. F T 13.

MULTIPLE CHOICE

F

T

14.15.

1. В 2. Α 3. В C 4. 5. A 6. Α 7. В 8. D D 9. C 10. 11. В 12. A 13. C 14. D

Α

15.

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SHORT ANSWER

- 1. Computer Security
- 2. integrity
- 3. attack
- 4. availability
- 5. Encipherment
- 6. Family Educational Rights and Privacy Act (FERPA)
- 7. threat
- 8. passive
- 9. encryption
- 10. masquerade
- 11. data confidentiality
- 12. access control
- 13. International Organization for Standardization (ISO)
- 14. Nonrepudiation
- 15. digital signature

CHAPTER 1: INTRODUCTION

TRUE OR FALSE

T	F	1. With the introduction of the computer the need for automated tools for protecting files and other information stored on the computer became evident.
T	F	2. There is a natural tendency on the part of users and system managers to perceive little benefit from security investment until a security failure occurs.
Т	F	3. There are clear boundaries between network security and internet security. $\ensuremath{\mathbb{Z}}$
Т	F	4. The CIA triad embodies the fundamental security objectives for both data and for information and computing services. ②
T	F	5. In developing a particular security mechanism or algorithm one must always consider potential attacks on those security features.
	?	must arways consider potential actacks on those security reactives.
Т	F	6. A loss of confidentiality is the unauthorized modification or destruction of information. 2
Т	F	7. Patient allergy information is an example of an asset with a moderate requirement for integrity.
Т	F	8. The more critical a component or service, the higher the level of availability required. $\ensuremath{\mathbb{Z}}$
Т	F	9. Data origin authentication provides protection against the duplication or modification of data units. 2
Т	F	10. The emphasis in dealing with passive attacks is on prevention rather than detection. $\ensuremath{\mathbb{Z}}$
Т	F	11. Data integrity is the protection of data from unauthorized disclosure.
Т	F	12. Information access threats exploit service flaws in computers to inhibit use by legitimate users. $\ \ \square$

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T	F	13. Viruses and worms are	two ex	amples of software attacks. 🏻		
Т	F	messages without regar	A connection-oriented integrity service deals with individual messages without regard to any larger context and generally provides protection against message modification only.			
Т	F		5. Pervasive security mechanisms are not specific to any particular OSI security service or protocol layer. 2			
MULT	TIPLE C	НОІСЕ				
1.		_ security consists of measu ty violations that involve the		deter, prevent, detect, and correct nission of information. 2		
		A. Computer	B. Int	ernet		
		C. Intranet	D. Ne	twork		
 Verifying that users are who they say they are and that each input arriving at the system came from a trusted source. 						
		A. authenticity		B. accountability 2		
		C. integrity 2		D. confidentiality		
3.		assures that systems wor rized users. 🏿	rk pron	nptly and service is not denied to		
		A. Integrity 2	B. Av	ailability		
		C. System integrity 2		D. Data confidentiality		
4 assures that a system performs its intended function unimpaired manner, free from deliberate or inadvertent unaumanipulation of the system. 2						
		A. Data confidentiality 2		B. Availability		
		C. System integrity 2		D. Privacy		

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5.	The security goal that generates the requirement for actions of an entity to be traced uniquely to that entity is					
	A. accountability 2	B. authenticity 2				
	C. privacy 🛽	D. integrity				
6.	attacks attempt to alter system resources or affect their operation.					
	A. Active 2	B. Release of message content				
	C. Passive 🛽	D. Traffic analysis				
7.	A takes place when one e	entity pretends to be a different entity. $lacktree{\mathbb{Z}}$				
	A. passive attack 🛚	B. masquerade				
	C. modification of message	D. replay				
8.	X.800 defines as a service that is provided by a protocol layer of communicating open systems and that ensures adequate security of the systems or of data transfers. 2					
	A. replay 2	B. integrity 2				
	C. authenticity 2	D. security service				
9.	and individual membership that p that confront the future of the Inte	ship society with worldwide organizational rovides leadership in addressing issues ernet and is the organization home for the frastructure standards, including the IETF				
	A. ITU-T 2	B. ISO 2				
	C. FIPS 2	D. ISOC				

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10. The pro	otection of data from unauth	norized disclosure is 🛚	
	A. access control 🛚	B. authentication	
	C. data confidentiality 🛚	D. nonrepudiation	
standa	9	at deals with measurement science, to U.S. government use and to the novation.	
	A. ISO 🛽	B. NIST 2	
	C. ITU-T 🛽	D. ISOC	
12. The pro	evention of unauthorized us	e of a resource is 🛚	
	A. access control 🛚	B. authentication	
	C. data confidentiality 2	D. nonrepudiation	
	service addresses the attacks. 🏿	security concerns raised by denial-of-	
	A. event detection 2	B. integrity 2	
	C. availability 🛽	D. routing control	
	is the insertion of bits into gaps in a data stream to frustrate traffic sattempts. 2		
	A. Notarization 🛚	B. Authentication exchange	
	C. Routing control 🛚	D. Traffic padding	
	_ is a variety of mechanisms am of data units. 🏿	used to assure the integrity of a data unit	
	A. Data integrity 🛚	B. Authentication exchange	

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C. Trusted functionality 2 D. Event detection

SHORT ANSWER

1 is defined as "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. Three key objectives that are at the heart of computer security are: confidentiality, availability, and $\ \ \ \ \ \ \ \ \ \ \ \ \ $
3. An intelligent act that is a deliberate attempt to evade security services and violate the security policy of a system is an $\ \ \ \ \ \ \ \ \ \ \ \ \ $
4. A loss of is the disruption of access to or use of information or an information system.
5 is the use of mathematical algorithms to transform data into a form that is not readily intelligible, in which the transformation and subsequent recovery of the data depend on an algorithm and zero or more encryption keys. \square
6. Student grade information is an asset whose confidentiality is considered to be highly important by students and, in the United States, the release of such information is regulated by the ②
7. A possible danger that might exploit a vulnerability, a $___$ is a potential for violation of security which exists when there is a circumstance, capability, action, or event that could breach security and cause harm. \square
8. A attack attempts to learn or make use of information from the system but does not affect system resources. 2
9. The common technique for masking contents of messages or other information traffic so that opponents, even if they captured the message, could not extract the information from the message is $____$. $\boxed{2}$
10. Active attacks can be subdivided into four categories: replay, modification of messages, denial of service, and $\ \ \ \ \ \ \ \ \ \ \ \ \ $
11. $\ 2X.800$ divides security services into five categories: authentication, access control, nonrepudiation, data integrity and $\ 2$
12. In the context of network security, is the ability to limit and control the access to host systems and applications via communications links. ②

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