Test Bank for CompTIA Security Guide to Network Security Fundamentals 6th Ciampa

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Name:_____ Class:_____ Date:_____

Chapter 1 - Introduction to Security

True / False

1. The Security Administrator reports directly to the CIO.
   a. True
   b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Introduction to Security
QUESTION TYPE: True / False
HAS VARIABLES: False
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2. The CompTIA Security+ certification is a vendor-neutral credential.
   a. True
   b. False

ANSWER: True
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Introduction to Security
QUESTION TYPE: True / False
HAS VARIABLES: False
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3. Successful attacks are usually not from software that is poorly designed and has architecture/design weaknesses.
   a. True
   b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Reasons for Successful Attacks
QUESTION TYPE: True / False
HAS VARIABLES: False
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4. Smart phones give the owner of the device the ability to download security updates.
   a. True
   b. False

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Chapter 1 - Introduction to Security

ANSWER: False
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Difficulties in Defending Against Attacks
QUESTION TYPE: True / False
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5. As security is increased, convenience is often increased.
   a. True
   b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Understanding Security
QUESTION TYPE: True / False
HAS VARIABLES: False
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6. A vulnerability is a flaw or weakness that allows a threat to bypass security.
   a. True
   b. False

ANSWER: True
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Information Security Terminology
QUESTION TYPE: True / False
HAS VARIABLES: False
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7. To mitigate risk is the attempt to address risk by making the risk less serious.
   a. True
   b. False

ANSWER: True
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Information Security Terminology
QUESTION TYPE: True / False
HAS VARIABLES: False

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8. The Sarbanes-Oxley Act restricts electronic and paper data containing personally identifiable financial information.

a. True
b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Understanding the Importance of Information Security
QUESTION TYPE: True / False
HAS VARIABLES: False
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9. One of the challenges in combating cyberterrorism is that many of the prime targets are not owned and managed by the federal government.

a. True
b. False

ANSWER: True
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Understanding the Importance of Information Security
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10. Brokers steal new product research or a list of current customers to gain a competitive advantage.

a. True
b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Other Threat Actors
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Multiple Choice

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11. What information security position reports to the CISO and supervises technicians, administrators, and security staff?

a. security manager
b. security engineer
c. security auditor
d. security administrator

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Introduction to Security
QUESTION TYPE: Multiple Choice
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12. According to the U.S. Bureau of Labor Statistics, what percentage of growth for information security analysts is the available job outlook supposed to reach through 2024?

a. 10
b. 15
c. 18
d. 27

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Introduction to Security
QUESTION TYPE: Multiple Choice
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13. Which position below is considered an entry-level position for a person who has the necessary technical skills?

a. security technician
b. security administrator
c. CISO
d. security manager

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Introduction to Security
QUESTION TYPE: Multiple Choice
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14. What term refers to an action that provides an immediate solution to a problem by cutting through the complexity that surrounds it?

a. unicorn
b. approved action
c. secure solution
d. silver bullet

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Challenges of Securing Information
QUESTION TYPE: Multiple Choice
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15. In what kind of attack can attackers make use of millions of computers under their control in an attack against a single server or network?

a. centered
b. local
c. remote
d. distributed

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Difficulties in Defending Against Attacks
QUESTION TYPE: Multiple Choice
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16. Which term below is frequently used to describe the tasks of securing information that is in a digital format?

a. network security
b. information security
c. physical security
d. logical security

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Defining Information Security

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QUESTION TYPE: Multiple Choice
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17. Which of the three protections ensures that only authorized parties can view information?
    a. security
    b. availability
    c. integrity
    d. confidentiality

ANSWER: d
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Defining Information Security
QUESTION TYPE: Multiple Choice
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18. Select the information protection item that ensures that information is correct and that no unauthorized person or malicious software has altered that data.
    a. availability
    b. confidentiality
    c. integrity
    d. identity

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Defining Information Security
QUESTION TYPE: Multiple Choice
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19. Which of the following ensures that data is accessible to authorized users?
    a. availability
    b. confidentiality
    c. integrity
    d. identity

ANSWER: a
POINTS: 1

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DIFFICULTY: Easy
REFERENCES: Defining Information Security
QUESTION TYPE: Multiple Choice
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20. In information security, what can constitute a loss?
    a. theft of information
    b. a delay in transmitting information that results in a financial penalty
    c. the loss of good will or a reputation
    d. all of the above

ANSWER: d
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Information Security Terminology
QUESTION TYPE: Multiple Choice
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21. In information security, which of the following is an example of a threat actor?
    a. a force of nature such as a tornado that could destroy computer equipment
    b. a virus that attacks a computer network
    c. a person attempting to break into a secure computer network
    d. all of the above

ANSWER: d
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Information Security Terminology
QUESTION TYPE: Multiple Choice
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22. What type of theft involves stealing another person's personal information, such as a Social Security number, and then using the information to impersonate the victim, generally for financial gain?
    a. cyberterrorism
    b. identity theft
    c. phishing
    d. social scam

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ANSWER: b
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Understanding the Importance of Information Security
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23. Under which laws are health care enterprises required to guard protected health information and implement policies and procedures whether it be in paper or electronic format?

a. HIPAA
b. HLPDA
c. HCPA
d. USHIPA

ANSWER: a
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Understanding the Importance of Information Security
QUESTION TYPE: Multiple Choice
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24. Those who wrongfully disclose individually identifiable health information can be fined up to what amount per calendar year?

a. $50,000
b. $250,000
c. $500,000
d. $1,500,000

ANSWER: d
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Understanding the Importance of Information Security
QUESTION TYPE: Multiple Choice
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25. Which law requires banks and financial institutions to alert customers of their policies and practices in disclosing customer information?

a. Gramm-Leach-Bliley

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b. Sarbanes-Oxley
c. California Database Security Breach
d. USA Patriot

ANSWER: a
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Understanding the Importance of Information Security
QUESTION TYPE: Multiple Choice
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26. To date, the single most expensive malicious attack occurred in 2000, which cost an estimated $8.7 billion. What was the name of this attack?

a. Nimda
b. Slammer
c. Love Bug
d. Code Red

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Understanding the Importance of Information Security
QUESTION TYPE: Multiple Choice
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27. What term is used to describe a group that is strongly motivated by ideology, but is usually not considered to be well-defined and well-organized?

a. hactivists
b. hacker
c. script kiddies
d. cyberterrorist

ANSWER: a
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Hactivists
QUESTION TYPE: Multiple Choice
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28. Which term is used to describe individuals who want to attack computers yet lack the knowledge of computers and networks needed to do so?

a. cybercriminal
b. hacker
c. script kiddies
d. cyberterrorist

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Script Kiddies
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
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29. Select the term that best describes automated attack software?

a. open-source utility
b. insider software
c. open-source intelligence
d. intrusion application

ANSWER: c
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Script Kiddies
QUESTION TYPE: Multiple Choice
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30. What class of attacks use innovative attack tools and once a system is infected it silently extracts data over an extended period?

a. Inside Attacks
b. Advanced Persistent Threat
c. Embedded Attacks
d. Modified Threat

ANSWER: b
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Nation State Actors
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False

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31. What term is used to describe state-sponsored attackers that are used for launching computer attacks against their foes?

a. nation state threats
b. cyber military
c. nation state actors
d. state hackers

ANSWER: c
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Nation State Actors
QUESTION TYPE: Multiple Choice
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32. What term describes a layered security approach that provides the comprehensive protection?

a. comprehensive-security
b. diverse-defense
c. limiting-defense
d. defense-in-depth

ANSWER: d
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Fundamental Security Principles
QUESTION TYPE: Multiple Choice
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33. What process describes using technology as a basis for controlling the access and usage of sensitive data?

a. technical controls
b. administrative controls
c. control diversity
d. vendor diversity

ANSWER: a
POINTS: 1
DIFFICULTY: Difficult
REFERENCES: Fundamental Security Principles

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34. What type of diversity is being implemented if a company is using multiple security products from different manufacturers?

a. multiple-product security
b. manufacturer diversity
c. vendor diversity
d. vendor-control security

ANSWER: c
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Fundamental Security Principles
QUESTION TYPE: Multiple Choice
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35. What level of security access should a computer user have to do their job?

a. password protected
b. least amount
c. limiting amount
d. authorized access

ANSWER: b
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Fundamental Security Principles
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
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36. What term best describes any premeditated, politically motivated attack against information, computer systems, computer programs, and data which results in violence against noncombatant targets by subnational groups or clandestine agents?

a. cybercriminal
b. cracking
c. cyberterrorism
d. hacking

ANSWER: c

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POINTS: 1
DIFFICULTY: Easy
REFERENCES: Understanding the Importance of Information Security
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Multiple Response

37. Which of the following is a valid fundamental security principle? (Choose all that apply.)
    a. signature
    b. diversity
    c. simplicity
    d. layering

ANSWER: b, c, d
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Fundamental Security Principles
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
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38. Which of the following describes various supporting structures for implementing security that provides a resource of how to create a secure IT environment? (Choose all that apply.)
    a. regulatory frameworks
    b. reference architectures
    c. industry-standard frameworks
    d. reference frameworks

ANSWER: b, c
POINTS: 1
DIFFICULTY: Difficult
REFERENCES: Frameworks and Reference Architectures
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
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39. Which of the following is a common security framework? (Choose all that apply.)
    a. ISO
    b. COBIT

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c. RFC
d. ASA

ANSWER: a, b, c
POINTS: 1
DIFFICULTY: Difficult
REFERENCES: Frameworks and Reference Architectures
QUESTION TYPE: Multiple Response
HAS VARIABLES: False
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40. Which of the following are considered threat actors? (Choose all that apply.)
a. brokers
b. competitors
c. administrators
d. individuals

ANSWER: a, b
POINTS: 1
DIFFICULTY: Difficult
REFERENCES: Other Threat Actors
QUESTION TYPE: Multiple Response
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Subjective Short Answer

41. Why is the speed of malicious attacks making the challenge of keeping computers secure more difficult?
ANSWER: With modern tools at their disposal, attackers can quickly scan systems to find weaknesses and launch attacks with unprecedented speed. Many tools can even initiate new attacks without any human participation, thus increasing the speed at which systems are attacked.
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Difficulties in Defending Against Attacks
QUESTION TYPE: Subjective Short Answer
HAS VARIABLES: False
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42. Why are there delays in updating products such as anti-virus software to resist attacks?
ANSWER: At the current rate of submissions of potential malware on a daily basis, updates for anti-virus software would need to be released every few seconds.
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DIFFICULTY: Moderate
REFERENCES: Difficulties in Defending Against Attacks
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43. List and describe three of the characteristics of information that must be protected by information security?
ANSWER: Three of the characteristics of information that must be protected by information security are: 1. Confidentiality-Confidentiality ensures that only authorized parties can view the information. 2. Integrity-Integrity ensures that the information is correct and no unauthorized person or malicious software has altered that data. 3. Availability-Availability ensures that data is accessible to authorized users.
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Defining Information Security
QUESTION TYPE: Subjective Short Answer
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44. Information security is achieved through a combination of what three entities? Provide at least one example of each entity.
ANSWER: Products (physical security): The physical security around the data. May be as basic as door locks or as complicated as intrusion-detection systems and firewalls. People (personnel security): Those who implement and properly use security products to protect data. Procedures (organizational security): Plans and policies established by an organization to ensure that people correctly use the products.
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Defining Information Security
QUESTION TYPE: Subjective Short Answer
HAS VARIABLES: False
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45. What are script kiddies?
ANSWER: Script kiddies are individuals who want to break into computers to create damage yet lack the advanced knowledge of computers and networks needed to do so. Instead, script kiddies do their work by downloading automated attack software (scripts) from Web sites and using it to perform malicious acts.
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Script Kiddies
QUESTION TYPE: Subjective Short Answer

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46. What threat actors are generally believed to be the most dangerous threat actors? Explain your answer.
ANSWER: Many security researchers believe that nation state actors might be the deadliest of any threat actors. Nation state actors target very specific resources and the attackers keep working until they are successful. State sponsored attackers are highly skilled and have enough government resources to breach almost any security defense
POINTS: 1
DIFFICULTY: Easy
REFERENCES: Nation State Actors
QUESTION TYPE: Subjective Short Answer
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47. What is the Payment Card Industry Data Security Standard (PCI DSS)?
ANSWER: The PCI DSS is a set of security standards that all companies that process, store, or transmit credit or debit card information must follow. PCI applies to any enterprise or merchant, regardless of its size or number of card transactions, that processes transactions either online or in person.
POINTS: 1
DIFFICULTY: Difficult
REFERENCES: Understanding the Importance of Information Security
QUESTION TYPE: Subjective Short Answer
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48. What are the four different risk response techniques?
ANSWER: Accept, transfer, avoid, and mitigate.
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Information Security Terminology
QUESTION TYPE: Subjective Short Answer
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49. What is occurring when an attacker manipulates commonplace actions that are routinely performed in a business?
ANSWER: Vulnerable business processes, also called business process compromise (BPC), occurs when an attacker manipulates commonplace actions that are routinely performed within an organization.
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DIFFICULTY: Moderate
REFERENCES: Reasons for Successful Attacks
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50. Describe the security principle of simplicity.

ANSWER: Because attacks can come from a variety of sources and in many ways, information security is by its very nature complex. The more complex something becomes, the more difficult it is to understand. In addition, complex systems allow many opportunities for something to go wrong. Complex security systems can be hard to understand, troubleshoot, and feel secure about. As much as possible, a secure system should be simple for those on the inside to understand and use. Complex security schemes are often compromised to make them easier for trusted users to work with, yet this can also make it easier for the attackers. In short, keeping a system simple from the inside but complex on the outside can sometimes be difficult but reaps a significant benefit.
POINTS: 1
DIFFICULTY: Moderate
REFERENCES: Fundamental Security Principles
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