

Question 1

Correct

Mark 2.00 out of 2.00

Flag question

Which statement best describes a motivation of hacktivists?

Select one:

- ☐ They are interested in discovering new exploits.
- ☒ They are part of a protest group behind a political cause.
- ☐ They are curious and learning hacking skills.
- ☐ They are trying to show off their hacking skills.



Refer to curriculum topic: 1.2.1

Each type of cybercriminal has a distinct motivation for his or her actions.

The correct answer is: They are part of a protest group behind a political cause.

Question 2

Correct

Mark 2.00 out of 2.00

Flag question

What kind of integrity does a database have when all its rows have a unique identifier called a primary key?

Select one:

- ☐ domain integrity
- ☐ user-defined integrity
- ☒ entity integrity
- ☐ referential integrity



Refer to curriculum topic: 5.4.1

Data integrity is one of the three guiding security principles. A cybersecurity specialist should be familiar with the tools and technologies that are used to ensure data integrity.

The correct answer is: entity integrity

Question 3

What is a feature of a cryptographic hash function?

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Question 3

Correct

Mark 2.00 out of 2.00

Flag question

What is a feature of a cryptographic hash function?

Select one:

- ☐ Hashing requires a public and a private key.
- ☐ The output has a variable length.
- ☐ The hash input can be calculated given the output value.
- ☒ The hash function is a one-way mathematical function.



Refer to curriculum topic: 5.1.1

Data integrity is one of the three guiding security principles. A cybersecurity specialist should be familiar with the tools and technologies used to ensure data integrity.

The correct answer is: The hash function is a one-way mathematical function.

Question 4

Correct

Mark 2.00 out of 2.00

Flag question

What type of attack has an organization experienced when an employee installs an unauthorized device on the network to view network traffic?

Select one:

- ☒ sniffing
- ☐ spoofing
- ☐ phishing
- ☐ spamming



Refer to curriculum topic: 3.3.1

A cybersecurity specialist needs to be familiar with the characteristics of the different types of malware and attacks that threaten an organization.

The correct answer is: sniffing

Question 5

Correct

Mark 2.00 out of 2.00

🚩 Flag question

What are two incident response phases? (Choose two.)

Select one or more:

- ☐ prevention and containment
- ☒ detection and analysis
- ☒ containment and recovery
- ☐ confidentiality and eradication
- ☐ risk analysis and high availability
- ☐ mitigation and acceptance



Refer to curriculum topic: 6.3.1

When an incident occurs, the organization must know how to respond. An organization needs to develop an incident response plan that includes several phases.

The correct answers are: detection and analysis, containment and recovery

Question 6

Correct

Mark 2.00 out of 2.00

🚩 Flag question

Which technology would you implement to provide high availability for data storage?

Select one:

- ☐ software updates
- ☒ RAID
- ☐ N+1
- ☐ hot standby



Refer to curriculum topic: 6.2.3

System and data availability is a critical responsibility of a cybersecurity specialist. It is important to understand the technologies, process, and controls used to provide redundancy.

The correct answer is: RAID

Question 7

Correct

Mark 2.00 out of 2.00

Flag question

Which methods can be used to implement multifactor authentication?

Select one:

- ☒ passwords and fingerprints
- ☐ VPNs and VLANs
- ☐ IDS and IPS
- ☐ tokens and hashes



Refer to curriculum topic: 2.2.1

A cybersecurity specialist must be aware of the technologies available that support the CIA triad.

The correct answer is: passwords and fingerprints

Question 8

Correct

Mark 2.00 out of 2.00

Flag question

Which algorithm will Windows use by default when a user intends to encrypt files and folders in an NTFS volume?

Select one:

- ☐ DES
- ☐ RSA
- ☒ AES
- ☐ 3DES



Refer to curriculum topic: 4.1.4

Encryption is an important technology used to protect confidentiality. It is important to understand the characteristics of the various encryption methodologies.

The correct answer is: AES

Question 9

An organization just completed a security audit. Your division was cited for not conforming to X.509 requirements. What is the first security

Question 9

Correct

Mark 2.00 out of 2.00

Flag question

An organization just completed a security audit. Your division was cited for not conforming to X.509 requirements. What is the first security control you need to examine?

Select one:

- ☐ data validation rules
- ☒ digital certificates
- ☐ VPNs and encryption services
- ☐ hashing operations



Refer to curriculum topic: 5.3.2

Digital certificates protect the parties involved in secure communications.

The correct answer is: digital certificates

Question 10

Correct

Mark 2.00 out of 2.00

Flag question

Which of the following products or technologies would you use to establish a baseline for an operating system?

Select one:

- ☒ Microsoft Security Baseline Analyzer
- ☐ MS Baseline
- ☐ SANS Baselining System (SBS)
- ☐ CVE Baseline Analyzer



Refer to curriculum topic: 7.1.1

There are many tools that a cybersecurity specialist uses to evaluate the potential vulnerabilities of an organization.

The correct answer is: Microsoft Security Baseline Analyzer



Grades



Messages



Calendar

Question 11

Correct

Mark 2.00 out of 2.00

Flag question

Smart cards and biometrics are considered to be what type of access control?

Select one:

- ☒ logical
- ☐ physical
- ☐ technological
- ☐ administrative



Refer to curriculum topic: 4.2.1

Access control prevents an unauthorized user from gaining access to sensitive data and networked systems. There are several technologies used to implement effective access control strategies.

The correct answer is: logical

Question 12

Correct

Mark 2.00 out of 2.00

Flag question

Which hashing technology requires keys to be exchanged?

Select one:

- ☒ HMAC
- ☐ AES
- ☐ salting
- ☐ MD5



Refer to curriculum topic: 5.1.3

The difference between HMAC and hashing is the use of keys.

The correct answer is: HMAC

Question 13

Correct

Mark 2.00 out of 2.00

Flag question

A user has a large amount of data that needs to be kept confidential. Which algorithm would best meet this requirement?

Select one:

- ☐ Diffie-Hellman
- ☐ RSA
- ☐ ECC
- ☒ 3DES



Refer to curriculum topic: 4.1.4

Encryption is an important technology used to protect confidentiality. It is important to understand the characteristics of the various encryption methodologies.

The correct answer is: 3DES

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Question **14**

Correct

Mark 2.00 out of 2.00

Flag question

Being able to maintain availability during disruptive events describes which of the principles of high availability?

Select one:

- ☐ single point of failure
- ☒ system resiliency
- ☐ uninterruptible services
- ☐ fault tolerance



Refer to curriculum topic: 6.1.1

High availability can be achieved by eliminating or reducing single points of failure, by implementing system resiliency, and by designing for fault tolerance.

The correct answer is: system resiliency

Question **15**

Incorrect

Mark 0.00 out of 2.00

Flag question

Which method is used by steganography to hide text in an image file?

Select one:

- ☐ least significant bit
- ☐ most significant bit
- ☒ data obfuscation
- ☐ data masking



Refer to curriculum topic: 4.3.2

Encryption is an important technology used to protect confidentiality. It is important to understand the characteristics of the various encryption methodologies.

The correct answer is: least significant bit

Question **16**

Correct

Mark 2.00 out of 2.00

Flag question

What is the most difficult part of designing a cryptosystem?

Select one:

- ☐ key length
- ☐ encryption algorithm
- ☐ reverse engineering
- ☒ key management



Refer to curriculum topic: 4.1.1

Encryption is an important technology used to protect confidentiality. It is important to understand the characteristics of the various encryption methodologies.

The correct answer is: key management

Question 17

Correct

Mark 2.00 out of 2.00

Flag question

What approach to availability involves using file permissions?

Select one:

- ☐ layering
- ☐ simplicity
- ☒ limiting
- ☐ obscurity



Refer to curriculum topic: 6.2.2

System and data availability is a critical responsibility of a cybersecurity specialist. It is important to understand the technologies, process, and controls used to protect provide high availability.

The correct answer is: limiting

Question 18

Correct

Mark 2.00 out of 2.00

Flag question

An organization allows employees to work from home two days a week. Which technology should be implemented to ensure data confidentiality as data is transmitted?

Select one:

- ☐ RAID
- ☒ VPN
- ☐ VLANs
- ☐ SHS



Refer to curriculum topic: 2.4.1

Protecting data confidentiality requires an understanding of the technologies used to protect data in all three data states.

The correct answer is: VPN

Question 19

Correct

Mark 2.00 out of 2.00

Flag question

An organization has implemented antivirus software. What type of security control did the company implement?

Select one:

- ☒ recovery control
- ☐ detective control
- ☐ compensative control
- ☐ deterrent control



Refer to curriculum topic: 4.2.7

A cybersecurity specialist must be aware of the technologies and measures that are used as countermeasures to protect the organization from threats and vulnerabilities.

The correct answer is: recovery control

Question 20

Correct

Mark 2.00 out of 2.00

Flag question

Which protocol would be used to provide security for employees that access systems remotely from home?

Select one:

- ☒ SSH
- ☐ WPA
- ☐ SCP
- ☐ Telnet



Refer to curriculum topic: 7.2.1

Various application layer protocols are used to for communications between systems. A secure protocol provides a secure channel over an unsecured network.

The correct answer is: SSH



Grades



Messages



Calendar

Question 21

Correct

Mark 2.00 out of 2.00

Flag question

Alice and Bob use a pre-shared key to exchange a confidential message. If Bob wants to send a confidential message to Carol, what key should he use?

Select one:

- ☒ a new pre-shared key
- ☐ the private key of Carol
- ☐ the same pre-shared key he used with Alice
- ☐ the public key of Bob



Refer to curriculum topic: 4.1.2

Encryption is an important technology used to protect confidentiality. It is important to understand the characteristics of the various encryption methodologies.

The correct answer is: a new pre-shared key

Question 22

Correct

Mark 2.00 out of 2.00

Flag question

A penetration testing service hired by the company has reported that a backdoor was identified on the network. What action should the organization take to find out if systems have been compromised?

Select one:

- ☐ Scan the systems for viruses.
- ☐ Look for policy changes in Event Viewer.
- ☐ Look for usernames that do not have passwords.
- ☒ Look for unauthorized accounts.



Refer to curriculum topic: 3.1.1

A cybersecurity specialist needs to be familiar with the characteristics of the different types of malware and attacks that threaten an organization.

The correct answer is: Look for unauthorized accounts.

Question 23

Correct

Mark 2.00 out of 2.00

Flag question

Which technology can be used to protect VoIP against eavesdropping?

Select one:

- ☒ encrypted voice messages
- ☐ strong authentication
- ☐ ARP
- ☐ SSH



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Question **24**

Incorrect

Mark 0.00 out of 2.00

Flag question

Which law was enacted to prevent corporate accounting-related crimes?

Select one:

- ☐ Gramm-Leach-Bliley Act
- ☐ The Federal Information Security Management Act
- ☒ Import/Export Encryption Act
- ☐ Sarbanes-Oxley Act

✗

Refer to curriculum topic: 8.2.2

New laws and regulations have come about to protect organizations, citizens, and nations from cybersecurity attacks.

The correct answer is: Sarbanes-Oxley Act

Question **25**

Incorrect

Mark 0.00 out of 2.00

Flag question

Which two protocols pose switching threats? (Choose two.)

Select one or more:

- ☐ IP
- ☒ ICMP
- ☐ ARP
- ☒ WPA2
- ☐ RIP
- ☐ STP

✗

✗

Refer to curriculum topic: 7.3.1

Network switches are the heart of the modern data communication network. The main threats to network switches are theft, hacking and remote access, and attacks against network protocols.

The correct answers are: ARP, STP

Question **26**

Correct

Mark 2.00 out of 2.00

Flag question

What describes the protection provided by a fence that is 1 meter in height?

Select one:

- ☒ It deters casual trespassers only.
- ☐ It offers limited delay to a determined intruder.
- ☐ The fence deters determined intruders.
- ☐ It prevents casual trespassers because of its height.

✓

Question 27

Correct

Mark 2.00 out of 2.00

Flag question

HVAC, water system, and fire systems fall under which of the cybersecurity domains?

Select one:

- ☐ network
- ☒ physical facilities
- ☐ user
- ☐ device



Refer to curriculum topic: 8.1.6

Cybersecurity domains provide a framework for evaluating and implementing controls to protect the assets of an organization.

The correct answer is: physical facilities

Question 28

Correct

Mark 2.00 out of 2.00

Flag question

A cybersecurity specialist is working with the IT staff to establish an effective information security plan. Which combination of security principles forms the foundation of a security plan?

Select one:

- ☐ technologies, policies, and awareness
- ☐ encryption, authentication, and identification
- ☐ secrecy, identify, and nonrepudiation
- ☒ confidentiality, integrity, and availability



Refer to curriculum topic: 2.1.1

The CIA Triad is the foundation upon which all information management systems are developed.

The correct answer is: confidentiality, integrity, and availability

Question 29

Correct

Mark 2.00 out of 2.00

Flag question

The team is in the process of performing a risk analysis on the database services. The information collected includes the initial value of these assets, the threats to the assets and the impact of the threats. What type of risk analysis is the team performing by calculating the annual loss expectancy?

Select one:

- ☐ loss analysis
- ☒ quantitative analysis
- ☐ qualitative analysis
- ☐ protection analysis



2.00

Flag
question

Select one:

- ☐ loss analysis
- ☒ quantitative analysis
- ☐ qualitative analysis
- ☐ protection analysis



Refer to curriculum topic: 6.2.1

A qualitative or quantitative risk analysis is used to identify and prioritize threats to the organization.

The correct answer is: quantitative analysis

Question **30**

Correct

Mark 2.00 out of
2.00

Flag
question

What is an example of early warning systems that can be used to thwart cybercriminals?

Select one:

- ☐ ISO/IEC 27000 program
- ☐ CVE database
- ☒ Honeynet project
- ☐ Infragard



Refer to curriculum topic: 1.2.2

Early warning systems help identify attacks and can be used by cybersecurity specialists to protect systems.

The correct answer is: Honeynet project

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Grades



Messages



Calendar

Question 31

Correct

Mark 2.00 out of 2.00

Flag question

Alice and Bob are using a digital signature to sign a document. What key should Alice use to sign the document so that Bob can make sure that the document came from Alice?

Select one:

- ☒ private key from Alice
- ☐ public key from Bob
- ☐ private key from Bob
- ☐ username and password from Alice



Refer to curriculum topic: 5.2.2

Alice and Bob are used to explain asymmetric cryptography used in digital signatures. Alice uses a private key to encrypt the message digest. The message, encrypted message digest, and the public key are used to create the signed document and prepare it for transmission.

The correct answer is: private key from Alice

Question 32

Correct

Mark 2.00 out of 2.00

Flag question

What type of attack will make illegitimate websites higher in a web search result list?

Select one:

- ☐ browser hijacker
- ☐ DNS poisoning
- ☒ SEO poisoning
- ☐ spam



Refer to curriculum topic: 3.1.2

A cybersecurity specialist needs to be familiar with the characteristics of the different types of malware and attacks that threaten an organization.

The correct answer is: SEO poisoning

Question 33

Correct

Mark 2.00 out of 2.00

Flag question

What is it called when an organization only installs applications that meet its guidelines, and administrators increase security by eliminating all other applications?

Select one:

- ☐ asset availability
- ☒ asset standardization
- ☐ asset classification
- ☐ asset identification



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✓	✓						

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Question **34**

Correct

Mark 2.00 out of 2.00

🚩 Flag question

You have been asked to describe data validation to the data entry clerks in accounts receivable. Which of the following are good examples of strings, integers, and decimals?

Select one:

- ☐ 800-900-4560, 4040-2020-8978-0090, 01/21/2013
- ☒ female, 9866, \$125.50
- ☐ male, \$25.25, veteran
- ☐ yes/no 345-60-8745, TRF562



Refer to curriculum topic: 5.4.2

A string is a group of letters, numbers and special characters. An integer is whole number. A decimal is a number that is not a fraction.

The correct answer is: female, 9866, \$125.50

Question **35**

Incorrect

Mark 0.00 out of 2.00

🚩 Flag question

Which type of cybercriminal attack would interfere with established network communication through the use of constructed packets so that the packets look like they are part of the normal communication?

Select one:

- ☒ packet sniffing
- ☐ rogue Wi-Fi AP
- ☐ packet forgery
- ☐ DNS spoofing



Refer to curriculum topic: 1.3.1

Cybersecurity specialists need to be familiar with the characteristics of various attacks.

The correct answer is: packet forgery

Question **36**

Incorrect

Mark 0.00 out of 2.00

🚩 Flag question

A cyber criminal sends a series of maliciously formatted packets to the database server. The server cannot parse the packets and the event causes the server crash. What is the type of attack the cyber criminal launches?

Select one:

- ☐ SQL injection
- ☒ packet Injection
- ☐ man-in-the-middle
- ☐ DoS



Question **37**

Correct

Mark 2.00 out of 2.00

🚩 Flag question

Which type of networks poses increasing challenges to cybersecurity specialists due to the growth of BYOD on campus?

Select one:

- ☒ wireless networks
- ☐ sneaker net
- ☐ wired networks
- ☐ virtual networks



Refer to curriculum topic: 2.3.2

A cybersecurity specialist must be familiar with the types of technologies used to store, transmit, and process data.

The correct answer is: wireless networks

Question **38**

Correct

Mark 2.00 out of 2.00

🚩 Flag question

A security specialist is asked for advice on a security measure to prevent unauthorized hosts from accessing the home network of employees. Which measure would be most effective?

Select one:

- ☐ Implement a VLAN.
- ☒ Implement a firewall.
- ☐ Implement RAID.
- ☐ Implement intrusion detection systems.



Refer to curriculum topic: 2.4.1

Protecting data confidentiality requires an understanding of the technologies used to protect data in all three data states.

The correct answer is: Implement a firewall.

Question **39**

Correct

Mark 2.00 out of 2.00

🚩 Flag question

There are many environments that require five nines, but a five nines environment may be cost prohibitive. What is one example of where the five nines environment might be cost prohibitive?

Select one:

- ☐ the U.S. Department of Education
- ☐ the front office of a major league sports team
- ☐ department stores at the local mall
- ☒ the New York Stock Exchange



2.00

Flag
question

Select one:

- ☐ the U.S. Department of Education
- ☐ the front office of a major league sports team
- ☐ department stores at the local mall
- ☒ the New York Stock Exchange



Refer to curriculum topic: 6.1.1

System and data availability is a critical responsibility of a cybersecurity specialist. It is important to understand the technologies, process, and controls used to protect provide high availability.

The correct answer is: the New York Stock Exchange

Question **40**

Correct

Mark 2.00 out of
2.00

Flag
question

Which cybersecurity weapon scans for use of default passwords, missing patches, open ports, misconfigurations, and active IP addresses?

Select one:

- ☒ vulnerability scanners
- ☐ packet sniffers
- ☐ packet analyzers
- ☐ password crackers



Refer to curriculum topic: 8.2.4

There are many tools that a cybersecurity specialist uses to evaluate the potential vulnerabilities of an organization.

The correct answer is: vulnerability scanners



Grades



Messages



Calendar

Question 41

Incorrect

Mark 0.00 out of 2.00

Flag question

What three best practices can help defend against social engineering attacks? (Choose three.)

Select one or more:

- ☒ Do not provide password resets in a chat window. ✓
- ☒ Enable a policy that states that the IT department should supply information over the phone only to managers. ✗
- ☒ Educate employees regarding policies. ✓
- ☐ Resist the urge to click on enticing web links.
- ☐ Deploy well-designed firewall appliances.
- ☐ Add more security guards.

Refer to curriculum topic: 3.2.2

A cybersecurity specialist must be aware of the technologies and measures that are used as countermeasures to protect the organization from threats and vulnerabilities.

The correct answers are: Educate employees regarding policies., Do not provide password resets in a chat window., Resist the urge to click on enticing web links.

Question 42

Correct

Mark 2.00 out of 2.00

Flag question

Which statement describes a distributed denial of service attack?"

Select one:

- ☐ One computer accepts data packets based on the MAC address of another computer.
- ☒ An attacker builds a botnet comprised of zombies. ✓
- ☐ An attacker views network traffic to learn authentication credentials.
- ☐ An attacker sends an enormous quantity of data that a server cannot handle.

Refer to curriculum topic: 3.3.1

A cybersecurity specialist needs to be familiar with the characteristics of the different types of malware and attacks that threaten an organization.

The correct answer is: An attacker builds a botnet comprised of zombies.

Question 43

Correct

Mark 2.00 out of 2.00

Flag question

Which two values are required to calculate annual loss expectancy? (Choose two.)

Select one or more:

- ☒ single loss expectancy ✓
- ☐ asset value
- ☐ frequency factor
- ☒ annual rate of occurrence ✓

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Question 44

Correct

Mark 2.00 out of 2.00

Flag question

What Windows utility should be used to configure password rules and account lockout policies on a system that is not part of a domain?

Select one:

- ☐ Event Viewer security log
- ☐ Computer Management
- ☒ Local Security Policy tool
- ☐ Active Directory Security tool



Refer to curriculum topic: 7.2.2

A cybersecurity specialist must be aware of the technologies and measures that are used as countermeasures to protect the organization from threats and vulnerabilities. Local Security Policy, Event Viewer, and Computer Management are Windows utilities that are all used in the security equation.

The correct answer is: Local Security Policy tool

Question 45

Incorrect

Mark 0.00 out of 2.00

Flag question

Which statement describes a characteristics of block ciphers?

Select one:

- ☐ Block ciphers result in output data that is larger than the input data most of the time.
- ☐ Block ciphers encrypt plaintext one bit at a time to form a block.
- ☐ Block ciphers are faster than stream ciphers.
- ☒ Block ciphers result in compressed output.



Refer to curriculum topic: 4.1.2

Encryption is an important technology used to protect confidentiality. It is important to understand the characteristics of the various encryption methodologies.

The correct answer is: Block ciphers result in output data that is larger than the input data most of the time.

Question 46

Correct

Mark 2.00 out of 2.00

Flag question

What technology should be implemented to verify the identity of an organization, to authenticate its website, and to provide an encrypted connection between a client and the website?

Select one:

- ☐ digital signature
- ☐ salting
- ☒ digital certificate
- ☐ asymmetric encryption



Question **47**
Correct
Mark 2.00 out of 2.00
Flag question

What approach to availability provides the most comprehensive protection because multiple defenses coordinate together to prevent attacks?

Select one:

- ☒ layering
- ☐ diversity
- ☐ limiting
- ☐ obscurity



Refer to curriculum topic: 6.2.2
Defense in depth utilizes multiple layers of security controls.
The correct answer is: layering

Question **48**
Incorrect
Mark 0.00 out of 2.00
Flag question

Which wireless standard made AES and CCM mandatory?

Select one:

- ☐ WEP
- ☒ WPA
- ☐ WEP2
- ☐ WPA2



Refer to curriculum topic: 7.1.2
Wireless security depends on several industry standards and has progressed from WEP to WPA and finally WPA2.
The correct answer is: WPA2

Question **49**
Correct
Mark 2.00 out of 2.00
Flag question

What type of application attack occurs when data goes beyond the memory areas allocated to the application?

Select one:

- ☐ RAM spoofing
- ☒ buffer overflow
- ☐ SQL injection
- ☐ RAM Injection



Refer to curriculum topic: 3.3.3
A cybersecurity specialist needs to be familiar with the characteristics of the different types of malware and attacks that threaten an organization.

2.00

Flag
question

☐ RAM spoofing

☒ buffer overflow

☐ SQL injection

☐ RAM Injection



Refer to curriculum topic: 3.3.3

A cybersecurity specialist needs to be familiar with the characteristics of the different types of malware and attacks that threaten an organization.

The correct answer is: buffer overflow

Question **50**

Correct

Mark 2.00 out of
2.00

Flag
question

What technique creates different hashes for the same password?

Select one:

☐ SHA-256

☐ HMAC

☒ salting

☐ CRC



Refer to curriculum topic: 5.1.2

Data integrity is one of the three guiding security principles. A cybersecurity specialist should be familiar with the tools and technologies used ensure data integrity.

The correct answer is: salting

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