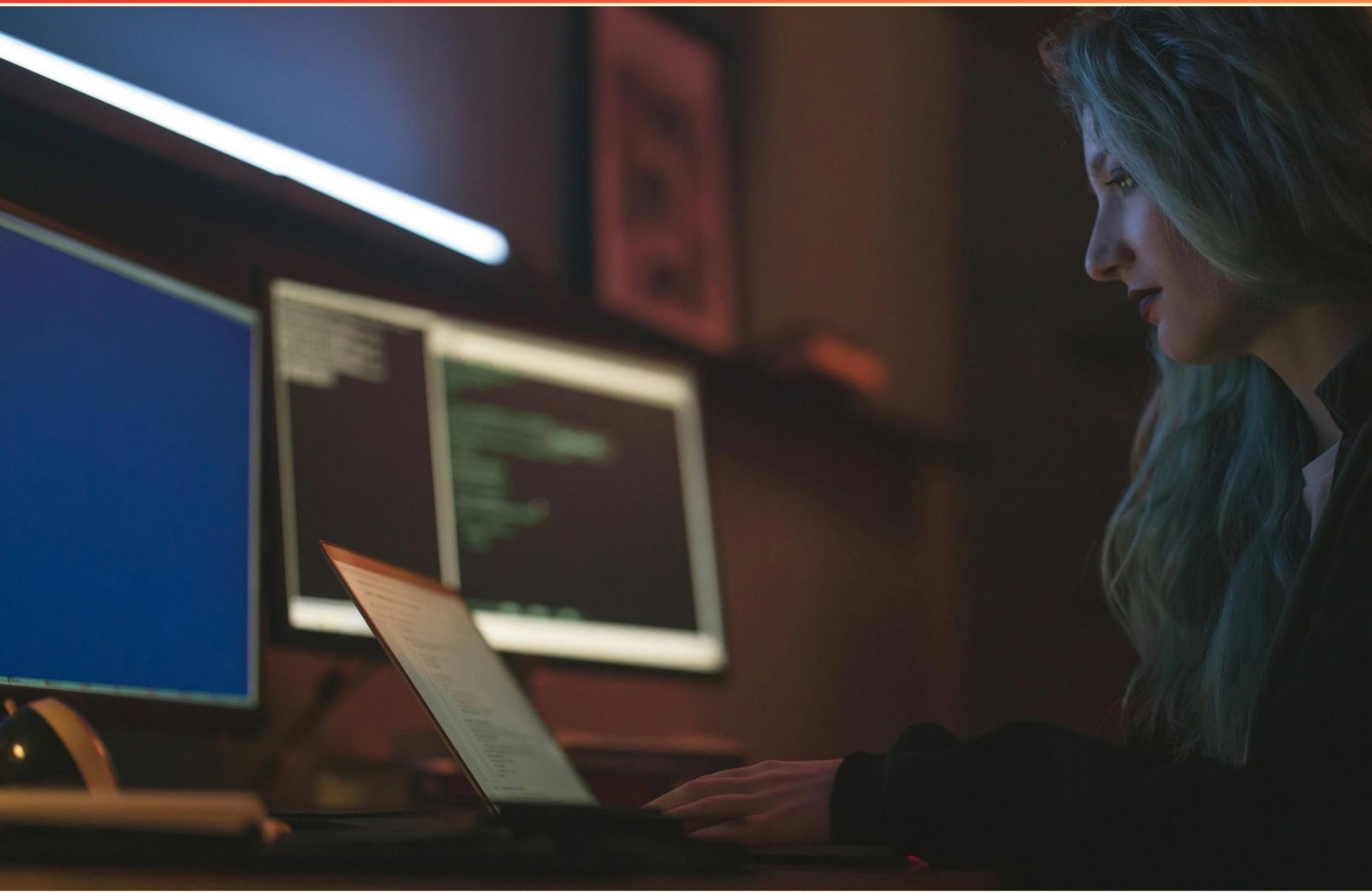


COMPTIA CYSA+ PRACTICE TEST (SAMPLE)

STUDY GUIDE



Prepare with structure. Pass with confidence



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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Which scenario would most likely trigger an incident involving a Cross-site Request Forgery (CSRF) attack?**
 - A. A user clicks on a malicious link while logged into an account
 - B. Legitimate user credentials are stolen through phishing
 - C. A web application is exploited due to unpatched flaws
 - D. A server receives overwhelming traffic from botnets

- 2. Which type of malware is designed to replicate itself and spread to other systems?**
 - A. Trojan
 - B. Virus
 - C. Worm
 - D. Spyware

- 3. Who holds the ultimate responsibility for ensuring the confidentiality, integrity, and availability of information within a system?**
 - A. Data custodian
 - B. Data steward
 - C. Data owner
 - D. Privacy officer

- 4. What does the term "threat landscape" refer to?**
 - A. The technology used in security
 - B. The current state of threats faced by organizations
 - C. The number of security incidents recorded
 - D. The systems in place for threat detection

- 5. Which method is inappropriate to utilize for ensuring software development security?**
 - A. Regularly updating libraries and frameworks
 - B. Conducting a code review process
 - C. Embedding keys within the source code
 - D. Utilizing static code analysis tools

- 6. Why is data encryption considered essential for sensitive information?**
- A. It makes data unreadable to unauthorized users
 - B. It increases the speed of data transmission
 - C. It allows for easier data backup
 - D. It improves aesthetics of data display
- 7. Upon a data breach involving credit card information, what disclosure must be made according to PCI-DSS compliance?**
- A. Notification to local law enforcement
 - B. Notification to your credit card processor
 - C. Notification to federal law enforcement
 - D. Notification to Visa and Mastercard
- 8. What is the primary goal of a penetration test?**
- A. To protect data from unauthorized access
 - B. To exploit vulnerabilities to determine security weaknesses in a system
 - C. To design secure network architectures
 - D. To create a disaster recovery plan
- 9. Which action should be taken to mitigate attacks while maintaining legitimate service access?**
- A. Reduce the overall server capacity
 - B. Utilize firewall rules to limit traffic based on host authenticity
 - C. Disable remote management options
 - D. Encourage users to log in at specific times
- 10. Which of the following is a key component of a risk management process?**
- A. Insurance coverage
 - B. Employee training
 - C. Risk assessment
 - D. Regulatory compliance

Answers

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1. A
2. C
3. C
4. B
5. C
6. A
7. B
8. B
9. B
10. C

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Explanations

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1. Which scenario would most likely trigger an incident involving a Cross-site Request Forgery (CSRF) attack?

- A. A user clicks on a malicious link while logged into an account**
- B. Legitimate user credentials are stolen through phishing
- C. A web application is exploited due to unpatched flaws
- D. A server receives overwhelming traffic from botnets

An incident involving a Cross-site Request Forgery (CSRF) attack is most likely triggered when a user clicks on a malicious link while logged into an account. CSRF attacks exploit the trust that a web application has in the user's browser. When the user is already authenticated, clicking on a malicious link can cause the browser to send a request to the web application on behalf of the user, potentially executing unwanted actions without their consent. This type of attack relies on the fact that the authenticated session is still active, allowing malicious requests to be processed as if they came from the legitimate user. In this scenario, the attacker's link takes advantage of the logged-in state to perform actions like changing account settings or making transactions, all without the user's awareness. The other scenarios do not specifically pertain to CSRF. For instance, stealing legitimate user credentials through phishing is typically related to credential theft and would more likely lead to unauthorized access rather than a CSRF attack. Exploiting vulnerabilities in a web application due to unpatched flaws pertains to different types of attacks such as SQL injection or cross-site scripting (XSS). Lastly, overwhelming server traffic from botnets is more indicative of a denial-of-service (DoS) attack and does not involve the user's

2. Which type of malware is designed to replicate itself and spread to other systems?

- A. Trojan
- B. Virus
- C. Worm**
- D. Spyware

The correct choice is a type of malware specifically designed to replicate itself and spread to other systems. A worm, unlike other types of malware, operates independently and can propagate across networks without human intervention. It exploits vulnerabilities in operating systems or applications to transfer itself from one computer to another. This ability to self-replicate and propagate makes worms particularly dangerous as they can rapidly infect large numbers of systems, overwhelming networks and causing significant damage. In contrast, a Trojan refers to a type of malware that disguises itself as a legitimate application, tricking users into executing it, but does not have the capability to replicate itself. Spyware is designed to gather information about a user or organization without their knowledge, primarily focusing on data collection rather than replication. Viruses are also harmful programs but require human action, such as opening a file or running a program, to spread; they attach themselves to executable files and rely on users to propagate. This distinction is crucial in understanding the unique characteristics of worms as a form of malware designed explicitly for self-replication and widespread dissemination.

3. Who holds the ultimate responsibility for ensuring the confidentiality, integrity, and availability of information within a system?

- A. Data custodian
- B. Data steward
- C. Data owner**
- D. Privacy officer

The individual responsible for ensuring the confidentiality, integrity, and availability of information within a system is the data owner. The data owner plays a crucial role in defining data management policies, access controls, and overall data governance. They are accountable for making decisions regarding who can access the data, how it is used, and what measures are in place to protect it. In contrast, while a data custodian may handle the day-to-day management and protection of the data, they do so under the guidelines established by the data owner. A data steward is often involved in the operational implementation of data governance but does not hold the final decision-making power about the data's security and access. A privacy officer typically focuses on compliance with regulations regarding data privacy rather than the overarching responsibilities related to data security across the organization. This delineation of roles highlights why the data owner is ultimately accountable for the information in question.

4. What does the term "threat landscape" refer to?

- A. The technology used in security
- B. The current state of threats faced by organizations**
- C. The number of security incidents recorded
- D. The systems in place for threat detection

The term "threat landscape" refers to the current state of threats faced by organizations. This encompasses the variety and nature of threats that can affect an organization's information systems, including malware, phishing attacks, ransomware, and advanced persistent threats. Understanding the threat landscape is crucial for organizations as it helps them assess risk, prioritize security measures, and implement appropriate defensive strategies against potential attacks. In addition, the threat landscape is dynamic, constantly evolving with new technologies, tactics, and vulnerabilities. Therefore, staying informed about this landscape is essential for cybersecurity professionals to effectively protect their organizations. It allows for proactive measures to address emerging threats and enhances the overall security posture. Other options relate to different aspects of security. While technology used in security is important, it does not directly define the threats faced. The number of security incidents provides a quantitative metric but does not encompass the broader concept of varying threats. Lastly, the systems in place for threat detection are tools and processes, again not a direct definition of the threat landscape itself.

5. Which method is inappropriate to utilize for ensuring software development security?

- A. Regularly updating libraries and frameworks
- B. Conducting a code review process
- C. Embedding keys within the source code**
- D. Utilizing static code analysis tools

Embedding keys within the source code is inappropriate for ensuring software development security because it exposes sensitive information directly within the codebase. This practice increases the risk of unauthorized access, as if the source code is compromised or anyone gains access to the repository, the embedded keys become easily exploitable. Proper security practices encourage the use of environment variables or secure vaults for managing sensitive information, which helps to keep it separate from the application code. In contrast, regularly updating libraries and frameworks, conducting a code review process, and utilizing static code analysis tools are all best practices for enhancing software security. Keeping libraries and frameworks updated helps protect against known vulnerabilities, code reviews enable peer inspections to catch potential security flaws, and static code analysis tools automatically identify security weaknesses in the codebase before deployment. These methods collectively contribute to a secure software development lifecycle.

6. Why is data encryption considered essential for sensitive information?

- A. It makes data unreadable to unauthorized users**
- B. It increases the speed of data transmission
- C. It allows for easier data backup
- D. It improves aesthetics of data display

Data encryption is considered essential for sensitive information primarily because it makes data unreadable to unauthorized users. By converting plaintext into a coded format, encryption ensures that even if the data is intercepted or accessed by someone without the proper decryption key or authorization, it remains incomprehensible and secure. This is crucial for protecting personal, financial, and proprietary information in a world where data breaches and cyberattacks are increasingly common. The other options do not accurately capture the core purpose of encryption. While increased speed of data transmission and easier data backup might be beneficial in other contexts, they do not relate directly to the primary function of encryption. Furthermore, improving the aesthetics of data display is unrelated to data security and encryption—it does not offer any protection or confidentiality for sensitive information.

7. Upon a data breach involving credit card information, what disclosure must be made according to PCI-DSS compliance?

- A. Notification to local law enforcement
- B. Notification to your credit card processor**
- C. Notification to federal law enforcement
- D. Notification to Visa and Mastercard

The requirement to notify your credit card processor in the event of a data breach involving credit card information is rooted in the obligations set forth by the Payment Card Industry Data Security Standard (PCI-DSS). This standard mandates that any entity that handles credit card data must have protocols in place for incident response, including timely notifications to relevant stakeholders following a breach. Notifying the credit card processor is crucial because they play a central role in the transaction routing and processing for credit card payments. They need to be involved in investigating the breach, understanding the scope of the incident, and assessing any potential fraud that may arise. This enables them to take necessary actions to mitigate risks and protect consumers' financial information. While notifying law enforcement or the card networks such as Visa and Mastercard could also be part of best practices or may be required under different circumstances, PCI-DSS specifically emphasizes the importance of direct communication with the credit card processor to manage the security implications of the breach effectively.

8. What is the primary goal of a penetration test?

- A. To protect data from unauthorized access
- B. To exploit vulnerabilities to determine security weaknesses in a system**
- C. To design secure network architectures
- D. To create a disaster recovery plan

The primary goal of a penetration test is to exploit vulnerabilities to determine security weaknesses in a system. This type of testing simulates real-world attacks by attempting to exploit known vulnerabilities in software, hardware, or network systems. By doing so, penetration testers can identify areas where security measures may be inadequate, allowing organizations to strengthen their defenses, address security gaps, and enhance their overall security posture. A penetration test goes beyond what is typically achieved through vulnerability assessments or security audits, which often focus on identifying vulnerabilities without attempting to exploit them. The focus on active exploitation during a penetration test provides deeper insights into how an attacker could potentially access sensitive data or compromise systems, leading to prioritized remediation efforts. In this context, other choices do not align with the primary goal of a penetration test. Protecting data from unauthorized access is typically an outcome of implementing security measures, rather than the direct intent of the testing process. Designing secure network architectures and creating disaster recovery plans are essential components of a broader security strategy, but they are not objectives of a penetration test specifically.

9. Which action should be taken to mitigate attacks while maintaining legitimate service access?

- A. Reduce the overall server capacity
- B. Utilize firewall rules to limit traffic based on host authenticity**
- C. Disable remote management options
- D. Encourage users to log in at specific times

Utilizing firewall rules to limit traffic based on host authenticity is an effective action to take because it enhances security without unnecessarily hindering legitimate access to services. By implementing these rules, the firewall can evaluate incoming traffic and permit only requests from trusted and authenticated sources while blocking potentially malicious ones. This ensures that legitimate users can access the necessary services seamlessly, while reducing the risk of unauthorized access and mitigating the chances of successful attacks. In contrast, reducing overall server capacity could result in legitimate users experiencing poor service or even denial of service, as fewer resources would be available to handle their requests. Disabling remote management options might enhance security but also restrict necessary access for legitimate administrative tasks, compromising the ability to manage systems effectively. Encouraging users to log in at specific times may help distribute server load but does not fundamentally enhance security or mitigate attacks effectively. Overall, firewall rules focused on host authenticity provide a balanced approach to protection while allowing for continuous legitimate access.

10. Which of the following is a key component of a risk management process?

- A. Insurance coverage
- B. Employee training
- C. Risk assessment**
- D. Regulatory compliance

Risk assessment is a critical component of the risk management process because it involves identifying, evaluating, and prioritizing risks associated with various factors, including assets, vulnerabilities, and potential threats to an organization. This process enables organizations to understand the landscape of risks they face and assess the likelihood and impact of those risks. The outcomes of risk assessment inform the subsequent steps in the risk management process, such as risk mitigation strategies, resource allocation, and establishing policies. By performing a thorough risk assessment, organizations can develop a focused approach to managing risks, thus enhancing their overall security posture and resilience against potential incidents. While insurance coverage, employee training, and regulatory compliance are all important aspects of risk management, they serve as auxiliary measures that support the broader risk management framework. Insurance coverage helps to transfer the financial impact of risks, employee training raises awareness and preparedness to respond to risks, and regulatory compliance ensures adherence to laws and regulations, but none of these can replace the foundational step of assessing risks in the first place. Hence, risk assessment stands out as a core element that guides and informs other risk management activities.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://comptia-cysaplus.examzify.com>

We wish you the very best on your exam journey. You've got this!

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