

Navy Officer Candidate School (OCS) Cyber Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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. What is the role of a file path in a URL?**
 - A. It determines which server to connect to.**
 - B. It specifies the exact location of a resource on the server.**
 - C. It identifies the type of protocol used.**
 - D. It acts as a security measure.**

- 2. Which of the following describes the role of the Transport Layer in the TCP/IP stack?**
 - A. Providing user interface**
 - B. Getting data from source to destination**
 - C. Acknowledging and sequencing packets**
 - D. Assigning IP addresses**

- 3. How does a dynamic webpage differ from a static webpage?**
 - A. It displays unchanging content.**
 - B. It contains embedded scripts for interactivity.**
 - C. It requires no server-side processing.**
 - D. It only displays text.**

- 4. What role do routers serve in a network?**
 - A. They amplify signal strength**
 - B. They act as immediate packet passing hosts**
 - C. They secure network communications**
 - D. They manage user access rights**

- 5. What does globalization in supply chain context refer to?**
 - A. The local sourcing of materials**
 - B. The spread of supply chains worldwide**
 - C. The reduction of global trade tariffs**
 - D. The isolation of national markets**

- 6. What does "client-side" processing refer to?**
 - A. Processing performed by the server to reduce client load.**
 - B. Data encryption handled on the server.**
 - C. Scripts executed on the user's device.**
 - D. Information stored exclusively on the server.**

7. What is a key characteristic of a strong password?

- A. It contains only letters**
- B. It is short and easy to remember**
- C. It includes a variety of character types**
- D. It uses common phrases**

8. Which of the following is NOT a characteristic of malware?

- A. Altering permissions**
- B. Displaying unwanted advertisements**
- C. Enhancing data encryption**
- D. Monitoring user behavior**

9. What type of memory retains information even when the power is turned off?

- A. Volatile memory**
- B. Non-volatile memory**
- C. Dynamic memory**
- D. Static memory**

10. What does a Trojan Horse typically disguise itself as?

- A. An intended system updater**
- B. A game or useful software**
- C. A communication tool**
- D. An antivirus program**

Answers

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

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Explanations

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1. What is the role of a file path in a URL?

- A. It determines which server to connect to.
- B. It specifies the exact location of a resource on the server.**
- C. It identifies the type of protocol used.
- D. It acts as a security measure.

A file path in a URL plays a critical role by specifying the exact location of a resource on the server. When a URL is constructed, it typically consists of several components, including the protocol, domain name, and the file path. The file path indicates the specific directory structure and filename of the resource being requested, allowing the web server to locate and serve that resource correctly. For example, in the URL "https://www.example.com/images/photo.jpg," the file path is "/images/photo.jpg," which tells the server to look in the "images" directory for the file "photo.jpg." This specificity is essential for retrieving the right content from the server. Without the file path, the server would not know which resource the user intends to access, resulting in an inability to provide the requested data.

2. Which of the following describes the role of the Transport Layer in the TCP/IP stack?

- A. Providing user interface
- B. Getting data from source to destination
- C. Acknowledging and sequencing packets**
- D. Assigning IP addresses

The role of the Transport Layer in the TCP/IP stack is primarily concerned with ensuring that data is delivered reliably and in the correct order. This is achieved through mechanisms such as acknowledgment of received packets and sequencing them appropriately. When data is transmitted over a network, the Transport Layer breaks it down into manageable segments for transmission and ensures that these segments arrive at their destination intact and in the correct sequence. If packets are lost or arrive out of order, the Transport Layer has protocols in place to request retransmission and reorder packets as necessary. This robust handling of data integrity and order is crucial for applications where reliable communication is essential, such as file transfers and web browsing. While other layers of the TCP/IP model perform different functions—like the Application Layer providing user interfaces or the Internet Layer handling the routing of data packets—the Transport Layer's focus on acknowledgment and sequencing is what distinguishes its responsibilities within the stack.

3. How does a dynamic webpage differ from a static webpage?

- A. It displays unchanging content.**
- B. It contains embedded scripts for interactivity.**
- C. It requires no server-side processing.**
- D. It only displays text.**

A dynamic webpage is characterized by its ability to display content that can change in response to user interactions or other variables, often employing embedded scripts to enhance interactivity. This interactivity allows dynamic webpages to provide personalized experiences, such as updating content without needing to refresh the entire page or responding to user inputs like forms, clicks, or actions in real time. The use of various scripting languages, such as JavaScript, enables these functionalities, differentiating them from static webpages that present fixed content. Understanding that dynamic webpages typically require server-side processing to generate content on-the-fly further underscores their complexity compared to static pages, which are served directly to the browser without modification. This design enables dynamic websites to present a more engaging user experience, catering to the needs and actions of the user.

4. What role do routers serve in a network?

- A. They amplify signal strength**
- B. They act as immediate packet passing hosts**
- C. They secure network communications**
- D. They manage user access rights**

Routers play a crucial role in a network by directing data packets between different interconnected networks. Their primary function is to receive incoming data packets and determine the most efficient path for those packets to reach their destination. By examining the destination IP address contained in the packet, the router uses its routing table and protocols to manage the best route for the data to travel, ensuring that the information is sent to the correct location. This process of routing involves not just forwarding packets from one network to another but also managing traffic and optimizing network performance. Routers make decisions based on various factors, including network conditions and policies, contributing significantly to the overall efficiency of communication within and between networks. This functionality distinguishes routers from other network devices, which may perform different roles such as amplifying signals, securing communications, or managing user access rights.

5. What does globalization in supply chain context refer to?

- A. The local sourcing of materials
- B. The spread of supply chains worldwide**
- C. The reduction of global trade tariffs
- D. The isolation of national markets

Globalization in a supply chain context primarily refers to the spread of supply chains worldwide. This involves the interconnectedness and interdependence of markets and suppliers across different countries, allowing businesses to access resources, manufacturing capabilities, and markets on a global scale. Such globalization enables companies to optimize production locations, reduce costs, and cater to a broader customer base. In contrast, local sourcing of materials focuses on procurement within a specific region, which is more about localized supply chains rather than global networks. The reduction of global trade tariffs may facilitate globalization but is just one contributing factor and does not define the concept itself. The isolation of national markets would be contrary to the idea of globalization, as it suggests a retreat from internationally integrated supply chains. Thus, the essence of globalization reflects the expansion and integration of supply chains across borders, making option B the most accurate representation of this concept.

6. What does "client-side" processing refer to?

- A. Processing performed by the server to reduce client load.
- B. Data encryption handled on the server.
- C. Scripts executed on the user's device.**
- D. Information stored exclusively on the server.

"Client-side" processing refers specifically to scripts that are executed on the user's device, typically within a web browser. This includes operations like rendering web pages, handling user interactions, and manipulating the document object model (DOM). The primary advantage of client-side processing is that it can offload work from the server, allowing for a more responsive user experience since actions do not require continuous communication with the server. This processing occurs on the client's device rather than on the server, which means it can result in faster feedback for users, enhanced interactivity, and reduced server load. Technologies involved in client-side processing often include JavaScript, HTML, and CSS, enabling rich user interfaces and real-time data updates without needing to refresh the web page or rely on server responses for every interaction. In contrast, options that imply server-side functionality do not align with the definition of "client-side." Server processing, data encryption, and information storage on the server all emphasize server responsibilities and capabilities rather than those that happen on the user's end.

7. What is a key characteristic of a strong password?

- A. It contains only letters
- B. It is short and easy to remember
- C. It includes a variety of character types**
- D. It uses common phrases

A strong password is characterized by its ability to defend against unauthorized access and cyber threats. Including a variety of character types—such as uppercase letters, lowercase letters, numbers, and special symbols—significantly enhances a password's complexity. This diversity makes it much harder for attackers to guess or crack the password using automated methods such as brute-force attacks. Using different character types increases the number of possible combinations, thus increasing the time and resources needed for an attacker to successfully infiltrate an account. This characteristic is vital in creating unique and hard-to-predict passwords, which are essential for maintaining cybersecurity.

8. Which of the following is NOT a characteristic of malware?

- A. Altering permissions
- B. Displaying unwanted advertisements
- C. Enhancing data encryption**
- D. Monitoring user behavior

Enhancing data encryption is not a characteristic typically associated with malware. While some forms of malware, like ransomware, do use encryption to hold data hostage, enhancing encryption as a general purpose is not the intended function of malware. Malware usually aims to disrupt, damage, or gain unauthorized access to systems, which is fundamentally different from enhancing security measures like encryption. In contrast, altering permissions, displaying unwanted advertisements, and monitoring user behavior are common behaviors exhibited by various types of malware. These actions are often intended to compromise user privacy, generate revenue through ad revenue, or allow unauthorized access to systems. Thus, while ransomware may employ encryption as part of its malicious scheme, the act of enhancing encryption as a beneficial security measure does not align with the characteristics of malware.

9. What type of memory retains information even when the power is turned off?

- A. Volatile memory
- B. Non-volatile memory**
- C. Dynamic memory
- D. Static memory

Non-volatile memory is the correct answer because it is specifically designed to retain data even when the power is turned off. This characteristic makes it essential for storing important information that must persist across power cycles. Examples of non-volatile memory include flash drives, solid-state drives (SSDs), and read-only memory (ROM). In contrast, volatile memory loses its contents when power is lost; this includes types of RAM such as dynamic memory (DRAM) and static memory (SRAM). While dynamic and static memories are faster and commonly used for temporary data storage during processing tasks, they are not suitable for retaining information when the system is powered down. Non-volatile memory ensures that data remains intact, providing a reliable solution for long-term data storage needs.

10. What does a Trojan Horse typically disguise itself as?

- A. An intended system updater**
- B. A game or useful software**
- C. A communication tool**
- D. An antivirus program**

A Trojan Horse typically disguises itself as a game or useful software to trick users into downloading and installing it on their systems. This tactic exploits the trust users have in legitimate applications, creating a false sense of security that encourages them to engage with the malware. Users may be drawn to a Trojan-presenting itself as something entertaining or productive, such as a popular game or a productivity application, without realizing the hidden malicious intent. By masking itself as software that appears beneficial, the Trojan can easily bypass security measures and access a user's device, leading to potential data breaches or system damage. This tactic highlights the importance of exercising caution when downloading software from untrusted sources.

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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://navyocscyber.examzify.com>

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

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