

PRAXIS COMPUTER SCIENCES (5652) PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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 statement best describes a hard drive?**
 - A. A device that processes video graphics.
 - B. Temporary memory used during processing.
 - C. Permanent storage on a computer.
 - D. A peripheral input device.
- 2. Which term describes a contractual stipulation to ensure ebusiness participants do not deny their online actions?**
 - A. Authentication
 - B. Confidentiality
 - C. Availability
 - D. Nonrepudiation
- 3. Which term describes the central processing unit?**
 - A. CPU
 - B. RAM
 - C. Video Card
 - D. Optical Drive
- 4. Which term describes the exclusive legal right, given to an originator or an assignee to print, publish, perform, film, or record literary, artistic, or musical material, and to authorize others to do the same?**
 - A. Abstraction
 - B. Creative Commons
 - C. Open Source
 - D. Copyright
- 5. Which term is described by a function that grows with a constant ratio?**
 - A. Quadratic
 - B. Logarithmic function
 - C. Reusability
 - D. Exponential function

6. In the URL `https://www.yourwebservice.com:80/on-demand/default.aspx`, which value specifies the port number?
- A. 443
 - B. 80
 - C. 21
 - D. 8080
7. What is the port number in the URL `https://www.yourwebservice.com:80/on-demand/default.aspx`?
- A. 443
 - B. 21
 - C. 80
 - D. 8080
8. Which term means verifying the identity of the person or device attempting to access the system?
- A. Availability
 - B. Integrity
 - C. Confidentiality
 - D. Authentication
9. Which term refers to the programming construct that decides which block of code to execute based on a Boolean condition?
- A. Iteration Control Structure
 - B. Arithmetic Operators
 - C. Selection
 - D. Assignment Operator
10. Which item is a network interface card used to connect a device to a network?
- A. Cable
 - B. NIC
 - C. Modem
 - D. Router

Answers

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

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Explanations

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1. Which statement best describes a hard drive?

- A. A device that processes video graphics.
- B. Temporary memory used during processing.
- C. Permanent storage on a computer.**
- D. A peripheral input device.

Hard drives serve as long-term, non-volatile storage in a computer. They keep your files, programs, and the operating system even when the power is off, which is what makes them permanent storage. This is different from RAM, which is temporary memory used during processing and is cleared when the computer shuts down. A device that processes video graphics is a GPU, not storage. An input device like a keyboard or mouse allows you to interact with the computer, but it doesn't store data long-term.

2. Which term describes a contractual stipulation to ensure ebusiness participants do not deny their online actions?

- A. Authentication
- B. Confidentiality
- C. Availability
- D. Nonrepudiation**

Nonrepudiation means ensuring that a party cannot deny having performed a digital action or transaction. In e-business, contracts and security measures rely on evidence—such as digital signatures that tie an action to a specific user, along with tamper evident logs and timestamps—that prove the action happened and who did it. This enduring evidence is what prevents later denial and supports enforceability in disputes or audits. Authentication is about verifying who you are at the moment, confidentiality is about keeping data secret, and availability is about ensuring access to systems. While authentication helps enable nonrepudiation, it isn't sufficient on its own without the accompanying proof (signatures, logs) that actually ties actions to a person over time.

3. Which term describes the central processing unit?

- A. CPU**
- B. RAM
- C. Video Card
- D. Optical Drive

The central processing unit is the brain of a computer, responsible for executing instructions and coordinating the actions of all other components. It runs the fetch-decode-execute cycle, pulling instructions from memory, figuring out what they mean, and performing the necessary calculations or data movements. This role—actually doing the computing work and directing how data moves through the system—is what makes it the central processing unit. RAM, by contrast, holds data and instructions temporarily for quick access but doesn't execute them. A video card handles graphics processing, and an optical drive reads and writes discs; neither is the primary engine that runs program instructions. So the term that describes the central processing unit is CPU.

4. Which term describes the exclusive legal right, given to an originator or an assignee to print, publish, perform, film, or record literary, artistic, or musical material, and to authorize others to do the same?

- A. Abstraction
- B. Creative Commons
- C. Open Source

D. Copyright

Copyright is the exclusive legal right granted to the creator of original literary, artistic, or musical works to print, publish, perform, film, or record the work, and to authorize others to do the same. This means the owner controls reproduction, distribution, public display or performance, and the creation of derivative works, and can license or restrict those uses. It applies automatically upon creation and lasts for a certain period, protecting the creator's ability to benefit from their creation. The other terms don't fit as well: Abstraction isn't about rights to works, Creative Commons is a licensing framework that lets others use works under specific conditions, and Open Source refers to software licensing that emphasizes free access and modification rather than exclusive control over a broad range of works.

5. Which term is described by a function that grows with a constant ratio?

- A. Quadratic
- B. Logarithmic function
- C. Reusability

D. Exponential function

Constant-ratio growth is a hallmark of exponential functions. If you have a function like $y = a \cdot b^x$, increasing x by 1 multiplies the output by the same amount b , so the ratio $y(x+1)/y(x)$ stays constant. That fixed multiplier is what defines exponential growth. Quadratic growth follows x^2 , where the successive ratios aren't constant—the growth speeds up as x increases. Logarithmic growth rises quickly at first and then levels off, so its consecutive-value ratios change. Reusability isn't describing a growth pattern of a function. So the term that matches growth with a constant ratio is the exponential function.

6. In the URL <https://www.yourwebservice.com:80/on-demand/default.aspx>, which value specifies the port number?

- A. 443
- B. 80
- C. 21
- D. 8080

Port numbers in a URL are specified after the host, separated by a colon. They tell the client which network port to connect to on the server. In this URL, the portion after the host is :80, so the port number is 80. Port 80 is the standard port for HTTP traffic; HTTPS typically uses port 443, but the explicit :80 overrides the default and designates that port. The other numbers listed (443, 21, 8080) are common ports for other services or alternatives, but the value shown after the colon here is the port being used: 80.

7. What is the port number in the URL

`https://www.yourwebservice.com:80/on-demand/default.aspx?`

- A. 443
- B. 21
- C. 80**
- D. 8080

The port number in a URL is the numeric endpoint after the host, separated by a colon, that tells the client which network port to connect to. In this URL, you can see the segment after the host is :80, so the port used is 80. Although the https scheme normally uses port 443, explicitly specifying :80 overrides that default. Therefore, the port number is 80.

8. Which term means verifying the identity of the person or device attempting to access the system?

- A. Availability
- B. Integrity
- C. Confidentiality
- D. Authentication**

Verifying the identity of the person or device attempting to access a system is authentication. This step confirms who the entity claims to be before granting access, forming the first line of defense in controlling who can enter. Authentication can involve something you know (password), something you have (security token or smart card), something you are (biometric), or something the system holds (digital certificate). It differs from the other security goals: confidentiality protects data from being read by unauthorized parties, integrity protects data from being altered, and availability ensures systems and data are accessible when needed. Once identity is verified, the system can apply authorization to grant appropriate permissions.

9. Which term refers to the programming construct that decides which block of code to execute based on a Boolean condition?

- A. Iteration Control Structure
- B. Arithmetic Operators
- C. Selection**
- D. Assignment Operator

This is about choosing which block of code to run based on a condition. That decision-making mechanism is called a selection construct, a form of conditional branching. When a Boolean condition is true, one block executes; when it's false, an alternative block (such as an else branch) runs. This category includes if statements and switch statements, all of which select the next steps based on the condition. Iteration control structures manage loops, arithmetic operators perform calculations, and the assignment operator stores values—none of which are about selecting between code paths based on a condition.

10. Which item is a network interface card used to connect a device to a network?

- A. Cable
- B. NIC**
- C. Modem
- D. Router

A network interface card is the component that serves as the device's actual interface to the network. It provides the physical port and the hardware functions needed for sending and receiving data over the network medium, and it may be wired or wireless. Even when a NIC is integrated into the motherboard, its role remains the same: it's the point where the device connects to the network and interacts with other devices. A cable, by contrast, is just the conduit that carries signals between devices; it's important, but it isn't the device's interface itself. A modem connects the local network to the Internet service provider and translates signals for that outside link, not the device's interior network connection. A router directs traffic between different networks and can share a connection among multiple devices, but it isn't the single device's own interface to the network.

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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://praxis5652.examzify.com>

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

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