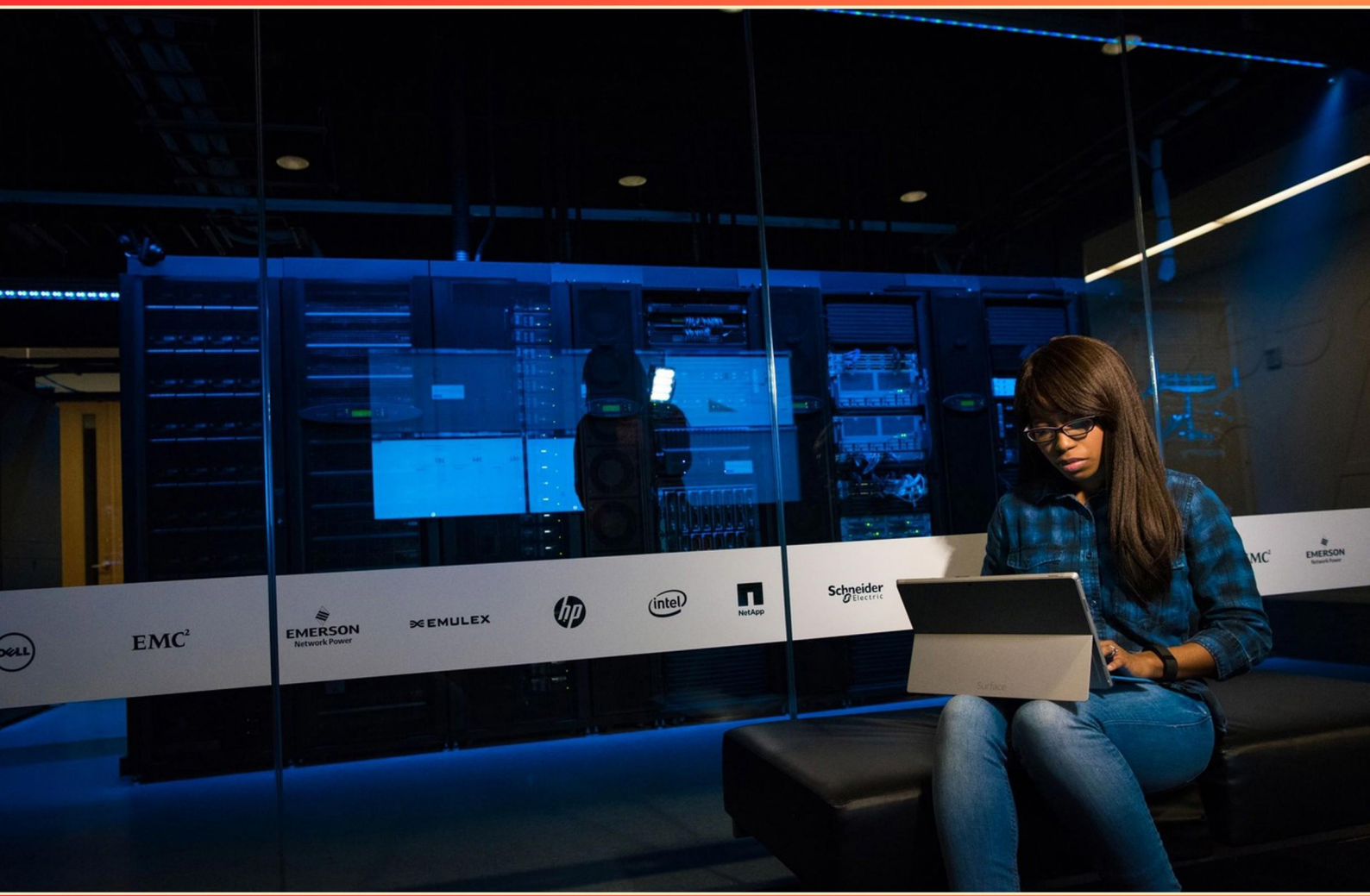
INFORMATION TECHNOLOGY SPECIALIST (MOS 25B) PRACTICE TEST (SAMPLE)

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.

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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!

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Questions

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1. **Which characteristic of GDDR Synchronous Dynamic RAM makes it suitable for gaming?**

   A. Low latency

   B. High-speed data processing

   C. Long lifespan

   D. Increased storage capacity

2. **What is the typical use of a webcam?**

   A. As an audio recording device

   B. For real-time video streaming and conferencing

   C. To display multimedia presentations

   D. For converting physical documents to digital format

3. **Which characteristic describes ECC (error-correcting code) memory?**

   A. Chips that are volatile

   B. Chips that can detect multiple bit errors and correct single bit errors

   C. Chips that cannot detect errors

   D. Chips that can only detect single bit errors

4. **What is the primary purpose of using a flatbed scanner?**

   A. To print documents quickly

   B. To scan documents in color

   C. To digitize photographs and documents

   D. To improve home office productivity

5. **What voltage is typically delivered by a computer power supply for disk drive motors?**

   A. 3.3 volts

   B. 5 volts

   C. 12 volts

   D. 15 volts

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6. Which two storage devices use a magnetic medium for storing data? (Choose two.)

A. Solid State Drive

B. Flash Drive

C. Tape Drive

D. Hard Disk Drive

7. What principle does the principle of least privilege emphasize?

A. Granting full access to all users

B. Providing users with minimum levels of access necessary to perform their job functions

C. Allowing unrestricted access to data

D. Offering maximum permissions to IT staff only

8. What device should be recommended for helping a person with accessibility issues input instructions into a laptop using a pen?

A. Mouse

B. Stylus

C. Touchpad

D. Trackball

9. Which of the following devices is NOT typically considered an input device?

A. Keyboard

B. Mouse

C. Microphone

D. Speakers

10. Which of the following is NOT a function of a proxy server?

A. Enhancing security

B. Controlling internet usage

C. Serving as a backup storage

D. Filtering content

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Answers

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

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Explanations

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1. Which characteristic of GDDR Synchronous Dynamic RAM makes it suitable for gaming?

A. Low latency

B. High-speed data processing

C. Long lifespan

D. Increased storage capacity

The characteristic that makes GDDR Synchronous Dynamic RAM particularly suitable for gaming is its high-speed data processing. This type of memory is designed specifically for graphics-intensive applications, such as video games, where quick access to data is crucial for rendering images and maintaining smooth frame rates. High-speed data processing allows GDDR RAM to handle large amounts of data simultaneously, which is essential for delivering high-quality graphics and ensuring an immersive gaming experience. This processing speed is achieved through innovations in memory architecture that enable faster data transfer rates compared to standard Dynamic RAM. This performance enhancement is significant in gaming scenarios where real-time rendering and rapid load times can greatly impact overall gameplay and user experience. While low latency, a long lifespan, and increased storage capacity may contribute to the overall performance of a computing system, it is the ability of GDDR RAM to process data quickly that is most directly beneficial in the context of gaming applications.

2. What is the typical use of a webcam?

A. As an audio recording device

B. For real-time video streaming and conferencing

C. To display multimedia presentations

D. For converting physical documents to digital format

The typical use of a webcam is for real-time video streaming and conferencing. Webcams are specifically designed to capture video and transmit it over the internet, making them ideal for activities such as video calls, online meetings, and live streaming. Their primary function is to provide a visual medium to enhance communication, allowing individuals to see and interact with one another in real-time, which is crucial in both personal and professional settings. This capability allows for a more engaging and interactive experience compared to audio-only communication methods. In contrast, while audio recording devices focus on sound capture, webcams are optimized for video. Multimedia presentations, although they may utilize video elements, rely more on software solutions for display rather than the webcam itself. Converting physical documents to digital format is a function typically performed by scanners rather than webcams, which are not designed for that purpose. Thus, real-time video functionality is the defining feature that makes a webcam a valuable tool for direct visual communication.

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3. Which characteristic describes ECC (error-correcting code) memory?

A. Chips that are volatile

B. Chips that can detect multiple bit errors and correct single bit errors

C. Chips that cannot detect errors

D. Chips that can only detect single bit errors

ECC (Error-Correcting Code) memory is designed with the capability to enhance data integrity in computing systems. The primary characteristic of ECC memory is its ability to detect and correct errors that may occur during data transmission or storage. In particular, it can detect multiple bit errors and correct single bit errors. This functionality is crucial for systems that require high reliability, such as servers or critical computing environments. The ECC mechanism works by adding extra bits to the data stored in memory, allowing the system to identify whether the stored data has been altered or corrupted. When a single bit error occurs, ECC can correct it automatically without the need for manual intervention. In contrast, when more than one bit error occurs, ECC can still identify that an error has happened but may not be able to correct all of those errors—hence its capability to detect multiple errors but only correct single ones. This distinct functionality makes ECC memory a preferred option in applications where data accuracy is paramount, contrasting sharply with non-ECC memory, which lacks these advanced error detection and correction capabilities, making it less reliable for such purposes.

4. What is the primary purpose of using a flatbed scanner?

A. To print documents quickly

B. To scan documents in color

C. To digitize photographs and documents

D. To improve home office productivity

The primary purpose of using a flatbed scanner is to digitize photographs and documents. Flatbed scanners are designed to take physical items, such as paper documents, photographs, and other materials, and convert them into digital formats. This allows users to create electronic copies that can be stored, edited, or shared easily, thereby facilitating the preservation of important documents and images in a digital format. The versatility of flatbed scanners in handling different sizes and types of media makes them particularly effective for this digitization process. While printing documents quickly may involve other devices, such as printers, that function differently from scanners, flatbed scanners are specifically tailored for the scanning process. Additionally, while scanning in color is one feature of many flatbed scanners, it is not the primary purpose; rather, the core function remains focused on the overall digitization of physical media. Improving home office productivity can be a benefit of using a flatbed scanner, but again, it is a secondary effect rather than the main intent of the device.

5. What voltage is typically delivered by a computer power supply for disk drive motors?

A. 3.3 volts

B. 5 volts

C. 12 volts

D. 15 volts

The voltage typically delivered by a computer power supply for disk drive motors is 12 volts. This voltage is essential because most disk drives, such as hard disk drives (HDDs) and optical drives, use 12 volts to power the motors that spin the platters or operate the loading mechanisms. The 12-volt output provides sufficient power for these components to operate efficiently under the varying load conditions encountered during read and write operations. While other voltages like 3.3 volts and 5 volts can be used in different parts of the computer for circuit boards and lower power components, the requirement for higher torque and consistent performance in motors necessitates the use of the 12-volt supply.

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6. Which two storage devices use a magnetic medium for storing data? (Choose two.)

A. Solid State Drive

B. Flash Drive

C. Tape Drive

D. Hard Disk Drive

The choice of tape drive and hard disk drive is accurate because both of these devices utilize a magnetic medium for storing data. Tape drives primarily work by writing data onto magnetic tape, which is a long, narrow strip of plastic coated with a magnetic material. This type of data storage is particularly beneficial for backup and archiving due to its ability to hold large amounts of data in a compact format and its cost-effectiveness for long-term storage. Hard disk drives (HDDs) function using spinning platters coated with a magnetic material. Data is read from and written to these platters by read/write heads that float above them. HDDs are widely used in personal computers, servers, and data centers for their substantial capacity and relatively fast access times compared to optical storage devices. In contrast, solid-state drives (SSDs) and flash drives do not use magnetic storage. SSDs use flash memory, which is a type of non-volatile memory that stores data in a manner similar to RAM, but without the volatility. Flash drives, likewise, utilize this flash memory technology to store data and are known for their portability and speed in accessing data. Therefore, they are not solutions based on magnetic media.

7. What principle does the principle of least privilege emphasize?

A. Granting full access to all users

B. Providing users with minimum levels of access necessary to perform their job functions

C. Allowing unrestricted access to data

D. Offering maximum permissions to IT staff only

The principle of least privilege emphasizes providing users with the minimum levels of access necessary to perform their job functions. This security concept aims to reduce the risk of accidental or malicious misuse of sensitive information and resources. By limiting access, organizations can prevent unauthorized actions and limit potential damage in case an account is compromised. For example, if an employee only needs access to specific files to complete their tasks, granting them full access to all systems would unnecessarily expose the organization to security risks. In applying this principle, organizations can enforce a more robust security posture by ensuring that users cannot access data or perform actions that fall outside their job requirements. This not only helps protect sensitive information but also minimizes the chance of human error that could lead to data breaches or compliance violations.

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8. What device should be recommended for helping a person with accessibility issues input instructions into a laptop using a pen?

A. Mouse

B. Stylus

C. Touchpad

D. Trackball

A stylus is the most suitable device for someone with accessibility issues who needs to input instructions into a laptop using a pen. A stylus allows for precise control and can be used on touch-enabled screens, enabling users to write or draw directly on the display. This is particularly beneficial for individuals who may have difficulty using traditional input devices like a mouse or touchpad. Using a stylus can help cater to various accessibility needs, as it supports more natural hand movements and the ability to perform more intricate tasks than with a finger or other devices. Styluses are often designed to work seamlessly with touchscreen technology, enhancing the user's experience and making interaction more intuitive. In contrast, a mouse, touchpad, or trackball may not offer the same level of direct interaction and precision that a stylus provides, making it less ideal for those with specific accessibility concerns.

9. Which of the following devices is NOT typically considered an input device?

A. Keyboard

B. Mouse

C. Microphone

D. Speakers

Speakers are designed to output sound, making them an output device rather than an input device. In computing contexts, input devices are tools used to provide data and control signals to a computer, allowing users to interact with the system and input information. Common input devices include keyboards, mice, and microphones, which capture user commands, clicks, and audio, respectively. Since speakers serve the purpose of delivering audio signals generated by the computer to the user, they do not fit the definition of an input device. Instead, they play a crucial role in communicating information from the computer to the user by converting electronic signals into sound. Therefore, identifying speakers as an output device clarifies why they are not included among input devices.

10. Which of the following is NOT a function of a proxy server?

A. Enhancing security

B. Controlling internet usage

C. Serving as a backup storage

D. Filtering content

The correct answer indicates that serving as a backup storage is not a function of a proxy server. Proxy servers primarily focus on managing network traffic between clients and the internet, which includes enhancing security by hiding the client's IP address, controlling internet usage by implementing policies on web access, and filtering content to block unwanted or harmful websites. Backup storage, on the other hand, relates to data preservation strategies where copies of data are made and stored separately to prevent data loss. This function is typically handled by dedicated backup solutions or storage devices rather than by proxy servers. Therefore, understanding the specific roles of a proxy server clarifies why serving as backup storage falls outside its defined functions.

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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://itspecialistmos25b.examzify.com

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

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