

# Configure a Workstation (CAW) 25B Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

SAMPLE

- 1. True or False: RAM is considered volatile storage.**
  - A. True**
  - B. False**
  - C. Depends on the type of RAM**
  - D. Only when powered**
- 2. How did the creation of the Z1 influence future computer development?**
  - A. It showcased the potential for digital computing.**
  - B. It established the use of graphical interfaces.**
  - C. It led to advancements in artificial intelligence.**
  - D. It restricted the use of electronics in computing.**
- 3. What does BIOS stand for, and what is its role?**
  - A. Basic Input/Output System; it initializes hardware during the booting process**
  - B. Binary Integrated Operating System; it manages application software**
  - C. Basic Internet Operating Software; it connects to the network**
  - D. Boot Interface Operating System; it manages user permissions**
- 4. What is the primary function of a kernel in an operating system?**
  - A. To manage the user interface**
  - B. To facilitate communication between hardware and software**
  - C. To store data permanently**
  - D. To manage application installations**
- 5. What is the main function of an operating system in a workstation?**
  - A. To serve as a web browser for the user**
  - B. To manage hardware and software resources**
  - C. To provide antivirus protection**
  - D. To limit access to unauthorized users**

- 6. What does the acronym CPU stand for?**
- A. Central Processing Unit**
  - B. Core Processing Unit**
  - C. Computer Peripheral Unit**
  - D. Central Program Unit**
- 7. Which of the following is not an IAT Level 1 certification?**
- A. Network+**
  - B. Security+**
  - C. A+ Certification**
  - D. Cloud Fundamentals**
- 8. Which of the following statements about Active Directory is true?**
- A. It is limited to 100 users**
  - B. It can manage users and resources**
  - C. It does not require authentication**
  - D. It is only used for network storage**
- 9. What is virtualization in the context of workstation configuration?**
- A. The creation of additional physical resources**
  - B. The process of installing multiple operating systems on a single hard drive**
  - C. The creation of virtual versions of physical resources**
  - D. The configuration of hardware components for performance**
- 10. In terms of network addressing, what is the difference between static and dynamic assignment?**
- A. Static addresses change regularly**
  - B. Dynamic addresses are permanent**
  - C. Dynamic addresses are assigned automatically**
  - D. Static addresses are always the default**

## **Answers**

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

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## **Explanations**

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**1. True or False: RAM is considered volatile storage.**

**A. True**

**B. False**

**C. Depends on the type of RAM**

**D. Only when powered**

RAM, or Random Access Memory, is classified as volatile storage because it requires power to maintain the data it holds. When the power is turned off, all the information stored in RAM is lost, demonstrating its volatile nature. This characteristic is crucial for understanding how devices manage data during operation. In contrast, non-volatile storage options like hard drives and SSDs retain data even when powered down. Therefore, stating that RAM is considered volatile storage is accurate, making the choice true. The nuances of different RAM types or conditions related to power do not change the fundamental quality that it is inherently volatile.

**2. How did the creation of the Z1 influence future computer development?**

**A. It showcased the potential for digital computing.**

**B. It established the use of graphical interfaces.**

**C. It led to advancements in artificial intelligence.**

**D. It restricted the use of electronics in computing.**

The creation of the Z1 was a significant milestone in the development of computers, particularly because it showcased the potential for digital computing. Constructed by Konrad Zuse in the 1930s, the Z1 was one of the first electromechanical computers, utilizing binary representation for data and performing arithmetic operations. This innovation marked a departure from previous computing methods, which were often mechanical and limited in scope. By demonstrating that complex calculations could be automated and performed digitally, the Z1 set the stage for future advancements in computer technology. Its development illustrated the viability of using binary systems, which became a foundation for subsequent computers and digital systems. The influence of the Z1 can be seen in later computing designs, pushing the boundaries of what machines were capable of and inspiring further exploration into digital computing technologies.

### 3. What does BIOS stand for, and what is its role?

- A. Basic Input/Output System; it initializes hardware during the booting process**
- B. Binary Integrated Operating System; it manages application software**
- C. Basic Internet Operating Software; it connects to the network**
- D. Boot Interface Operating System; it manages user permissions**

The correct answer highlights that BIOS stands for Basic Input/Output System. Its primary role is to initialize and test the system hardware components during the booting process before handing control over to the operating system. When a computer is powered on, the BIOS performs a Power-On Self-Test (POST) to check for critical hardware failures, such as issues with the RAM or hard drive. Once the hardware is verified, the BIOS then loads the operating system from the designated storage device, ensuring that the system is correctly set up and ready for user interaction. The other choices do not accurately describe the function or meaning of BIOS. For example, a Binary Integrated Operating System and Basic Internet Operating Software do not exist in computer architecture in the context related to boot processes and hardware management. Furthermore, user permissions and network connections fall under different aspects of operating system functionality rather than the role of the BIOS. This distinction emphasizes the importance of BIOS in the foundational processes of computer operation.

### 4. What is the primary function of a kernel in an operating system?

- A. To manage the user interface**
- B. To facilitate communication between hardware and software**
- C. To store data permanently**
- D. To manage application installations**

The kernel is a critical component of an operating system that serves as a bridge between the hardware and the software. Its primary function is to facilitate communication by managing system resources, allowing applications to interact with the physical components of the computer, such as the CPU, memory, and input/output devices. When software applications send requests to the hardware, it is the kernel that interprets and executes these requests, ensuring that appropriate resources are allocated and that data is exchanged properly. This communication process is essential for the smooth operation of an operating system, as it provides the necessary abstraction layer that enables software developers to write applications without needing to manage hardware specifics directly. In contrast, managing the user interface involves other components of the operating system, such as the desktop environment or windowing system, which are not functions of the kernel. Storing data permanently is typically the responsibility of file management systems. Managing application installations pertains to package managers or other software management tools, which also operate outside the kernel's functions. Hence, the kernel's role in facilitating communication between hardware and software is central to the overall functionality of an operating system.

**5. What is the main function of an operating system in a workstation?**

- A. To serve as a web browser for the user**
- B. To manage hardware and software resources**
- C. To provide antivirus protection**
- D. To limit access to unauthorized users**

The primary role of an operating system is to manage the hardware and software resources of a workstation. This encompasses a wide range of tasks, including overseeing the interactions between the hardware components like the CPU, memory, hard drives, and input/output devices, as well as managing software applications that run on the system. By efficiently allocating system resources, the operating system ensures that applications have the necessary resources to function correctly while also maintaining system stability and performance. It acts as an intermediary between users and the hardware, allowing for user-friendly commands and actions that translate into hardware operations. This management is essential for ensuring that multiple applications can run concurrently without conflicts. The other choices, while they may describe functions related to a workstation environment, do not encapsulate the core purpose of an operating system. For instance, while a web browser allows users to access the internet, it is merely an application that operates within the framework created by the operating system. Similarly, antivirus protection is a security feature that may be managed by software running on the operating system but is not a function of the operating system itself. Limiting access to unauthorized users is a capability often implemented through security features but is not the primary purpose of an operating system. Thus, the focus on managing resources is what delineates

**6. What does the acronym CPU stand for?**

- A. Central Processing Unit**
- B. Core Processing Unit**
- C. Computer Peripheral Unit**
- D. Central Program Unit**

The acronym CPU stands for Central Processing Unit. This component is often referred to as the "brain" of the computer, as it is responsible for executing instructions from programs and coordinating all the activities within the system. The CPU processes data and carries out various computations and tasks that are essential for the functioning of the computer. The term "Central" signifies that this unit is fundamental to the operation of the entire system, as it manages and performs logical operations and calculations required by applications and the operating system. The "Processing" aspect relates to the CPU's primary function—processing information and data rather than storing it. This understanding of the CPU's role is critical for anyone involved in configuring workstations or troubleshooting computer systems, as it directly impacts system performance and capabilities.

**7. Which of the following is not an IAT Level 1 certification?**

- A. Network+
- B. Security+**
- C. A+ Certification
- D. Cloud Fundamentals

The IAT (Information Assurance Technician) Level 1 certification is designed to validate foundational skills in information assurance and cybersecurity. Among the certifications listed, Network+, A+ Certification, and Cloud Fundamentals are all considered entry-level or foundational certifications in the IT field that align with the competencies expected at IAT Level 1. A+ Certification covers essential IT skills, including hardware, software, and basic networking, making it foundational for IT support roles. Network+ focuses on networking concepts, infrastructure, and operations, establishing a solid groundwork for understanding network communications. Cloud Fundamentals introduces essential concepts of cloud computing, which is crucial in the current technological landscape. In contrast, Security+ is more advanced in nature. It emphasizes core security principles, including risk management, threat analysis, and security controls, and it typically requires a deeper understanding of security topics that exceed the introductory level required for IAT Level 1. Therefore, while Security+ is crucial for a career in cybersecurity, it is not classified as a Level 1 certification due to its broader and more complex subject matter.

**8. Which of the following statements about Active Directory is true?**

- A. It is limited to 100 users
- B. It can manage users and resources**
- C. It does not require authentication
- D. It is only used for network storage

Active Directory is a comprehensive directory service developed by Microsoft used primarily in Windows domain networks. One of its core functionalities is the ability to manage users and resources effectively within a network. This includes handling user accounts, group policies, permission settings, and access to various network resources such as printers and file shares. By providing a centralized management system for these elements, Active Directory facilitates administrative tasks and enhances security by allowing specific access rights and controls. The choice indicating that it is limited to 100 users is incorrect; Active Directory can support thousands of users depending on the server and infrastructure. Authentication is a critical aspect of Active Directory, as it is designed to require users to authenticate before accessing network resources, so the statement regarding the lack of authentication is also incorrect. Additionally, Active Directory is much more than just a tool for network storage; it is a full-fledged directory service that manages a variety of network services beyond just storage, making the assertion focused solely on storage misleading.

**9. What is virtualization in the context of workstation configuration?**

- A. The creation of additional physical resources**
- B. The process of installing multiple operating systems on a single hard drive**
- C. The creation of virtual versions of physical resources**
- D. The configuration of hardware components for performance**

Virtualization in the context of workstation configuration refers to the creation of virtual versions of physical resources. This concept allows multiple virtual machines (VMs) to run on a single physical hardware setup, utilizing the underlying resources more efficiently. By virtualizing hardware components such as servers, storage, and network devices, organizations can optimize resource allocation, improve scalability, and simplify management. The ability to run multiple operating systems on a single physical machine is a key advantage of virtualization, enabling diverse development and testing environments without requiring additional hardware. It also supports the consolidation of workloads and greater flexibility in deploying applications, as virtual resources can be easily created, moved, or replicated as needed. Through virtualization, organizations can achieve better utilization of their physical infrastructure, reduce costs, and enhance operational efficiency.

**10. In terms of network addressing, what is the difference between static and dynamic assignment?**

- A. Static addresses change regularly**
- B. Dynamic addresses are permanent**
- C. Dynamic addresses are assigned automatically**
- D. Static addresses are always the default**

Dynamic addresses are assigned automatically by a network service, typically through a protocol like DHCP (Dynamic Host Configuration Protocol). This assignment process occurs when a device connects to the network, enabling it to request an IP address and receive a unique address that may change over time as devices connect and disconnect from the network. This automatic assignment is advantageous because it simplifies network management, allowing devices to join the network without manual configuration. The addresses can be assigned from a pool of available addresses and are usually temporary, meaning they may be released back to the pool after a certain period or when a device disconnects. The other options do not accurately represent the characteristics of dynamic address assignment or confuse the definitions of static and dynamic addressing. Static addresses, in contrast, are manually assigned and remain constant unless changed by a network administrator.