


Answers Foundations-of-Computer-Science Real Questions | Foundations-of-Computer-Science Valid Test Duration



Essential Questions in the Computer Science Program

The courses in this program are designed not just to give you coding skills, but also to help you think like a computer scientist. There are 10 "Essential Questions" spread throughout the program to help you develop this mindset. These questions are open-ended. There is not only one "right" answer. Instead, they introduce you to big ideas that you will engage with throughout the program.

CS 370

Theme	Essential Question
Problem Solving	How do I approach a problem as a computer scientist?
Teamwork and Collaboration	What does it mean to be a good team member in software development?
Ethics	What are my ethical responsibilities as a software developer to the end user and the organization?
Requirements Analysis	How do I interpret user needs and implement them into a program?
Design	How do I approach designing software?
Develop	How do I approach developing programs?
Develop	How do I write programs that are maintainable, readable, and adaptable?
Test	How do I ensure my code, program, or software is functional and secure?
Personal and Professional Growth	What do computer scientists do, and why does it matter?
Personal and Professional Growth	How can computer science help me in reaching my goals?

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WGU Foundations of Computer Science Sample Questions (Q31-Q36):

NEW QUESTION # 31

What is the name of the tool that can allow a device to run more than one operating system at a time as virtual machines?

- A. System Restore
- **B. Hypervisor**
- C. Bootloader
- D. Partition Manager

Answer: B

NEW QUESTION # 32

What type of encryption is provided by encryption utilities built into the file system?

- A. Encryption in motion
- B. Encryption steganography
- **C. Encryption at rest**
- D. Encryption authentication

Answer: C

Explanation:

File system encryption utilities are designed to protect data stored on a disk—for example, files on an SSD, HDD, or other persistent storage. This protection is called encryption at rest. The key idea is that if an attacker steals the physical drive, gains access to a powered-off machine, or otherwise reads storage directly, the raw bytes on disk remain unreadable without the correct cryptographic key. Common textbook examples include full-disk encryption and per-file encryption supported by operating systems and file systems.

This differs from encryption in motion (also called encryption in transit), which protects data while it is being transmitted over networks, such as via TLS/HTTPS, VPNs, or secure messaging protocols. File system utilities do not primarily address network transmission; they address stored data confidentiality. Option B,

"encryption authentication," is not a standard category; authentication is a security goal often achieved using mechanisms like digital signatures, MACs, certificates, and protocol handshakes, not a type of file system encryption. Option D, steganography, is the practice of hiding information within other data (like images or audio) rather than encrypting it for confidentiality.

In short, file system encryption utilities aim to ensure that stored files remain confidential if storage is accessed without authorization, which is precisely the definition of encryption at rest.

NEW QUESTION # 33

What is the time complexity of a binary search algorithm?

- A. $O(2)$

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