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**Digital Forensics in Cybersecurity Questions**  
**and correct Answers (Verified Answers)**  
**with Rationales 2025**

1. What is the primary goal of digital forensics?  
To identify, preserve, analyze, and present digital evidence in a legally acceptable manner.  
*This ensures evidence is handled properly to support legal proceedings without alteration or corruption.*

2. Which phase in the digital forensics process involves collecting digital evidence?  
Identification and collection phase.  
*Collecting evidence carefully to maintain integrity is crucial for valid forensic analysis.*

3. What does the acronym "ACPO" stand for in the context of digital forensics best practices?  
Association of Chief Police Officers.  
*The ACPO guidelines provide principles to ensure digital evidence is admissible and handled correctly.*

4. What is a hash value used for in digital forensics?  
To verify the integrity of data.

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# Exam Digital-Forensics-in-Cybersecurity Guide Materials, Digital-Forensics-in-Cybersecurity Reliable Real Test

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## WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q16-Q21):

### NEW QUESTION # 16

A forensic scientist is examining a computer for possible evidence of a cybercrime.

Why should the forensic scientist copy files at the bit level instead of the OS level when copying files from the computer to a forensic computer?

- A. Copying files at the OS level will copy extra information that is unnecessary.
- B. Copying files at the OS level changes the timestamp of the files.
- C. Copying files at the OS level takes too long to be practical.
- D. **Copying files at the OS level fails to copy deleted files or slack space.**

### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bit-level (or bit-stream) copying captures every bit on the storage media, including files, deleted files, slack space (unused space within a cluster), and unallocated space. This ensures all digital evidence, including artifacts not visible at the OS level, is preserved for analysis.

- \* Copying at the OS level captures only allocated files visible in the file system, missing deleted files and slack space.
- \* Bit-level copying is a cornerstone of forensic best practices as specified in NIST SP 800-86 and SWGDE guidelines.
- \* Timestamp changes and unnecessary information issues are secondary concerns compared to the completeness of evidence.

### NEW QUESTION # 17

The chief information security officer of a company believes that an attacker has infiltrated the company's network and is using steganography to communicate with external sources. A security team is investigating the incident. They are told to start by focusing on the core elements of steganography.

What are the core elements of steganography?

- A. Hash, nonce, salt
- B. **Payload, carrier, channel**
- C. Encryption, decryption, key
- D. File, metadata, header

### Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The core elements of steganography include:

- \* Payload: the hidden data or message,
- \* Carrier: the medium (e.g., image, audio file) containing the payload,
- \* Channel: the method or path used to deliver the carrier with the payload embedded.
- \* Understanding these elements helps investigators detect and analyze steganographic content.

Reference:NIST SP 800-101 and steganography research identify these core components as fundamental to steganographic communication.

### NEW QUESTION # 18

Tom saved a message using the least significant bit (LSB) method in a sound file and uploaded this sound to his own website. What is the carrier in this example?

- A. Tom's website
- B. The least significant bit method
- C. The message
- D. The sound file

#### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In steganography, the carrier is the file or medium used to hide the secret message. In this example, the sound file is the carrier because it contains the hidden message embedded using the least significant bit method. The message is the payload, and the website is merely the distribution platform.

- \* LSB is the embedding technique, not the carrier.
- \* The message is the payload, not the carrier.
- \* The website is not involved in data hiding.

NIST and steganography references clearly define the carrier as the container holding the hidden data.

### NEW QUESTION # 19

A forensic investigator suspects that spyware has been installed to a Mac OS X computer by way of an update.

Which Mac OS X log or folder stores information about system and software updates?

- A. /var/vm
- B. /var/log/daily.out
- C. /var/spool/cups
- D. /Library/Receipts

#### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The/Library/Receipts folder on Mac OS X contains receipts that track software installation and updates, including system and application updates. This folder helps forensic investigators determine which updates were installed and when, useful for detecting suspicious or unauthorized software installations like spyware.

- \* /var/spool/cups is related to printer spooling.
- \* /var/log/daily.out contains daily system log summaries but not detailed update records.
- \* /var/vm contains virtual memory files.

NIST and Apple forensics documentation indicate that/Library/Receipts is a key location for examining software installation history.

### NEW QUESTION # 20

Which tool should be used with sound files, video files, and image files?

- A. StegVideo
- B. Stealth Files 4
- C. Snow
- D. MP3Stego

#### Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

StegVideo is a steganographic tool designed to embed hidden messages within multimedia files such as sound, video, and image files, making it suitable for multi-media steganography.

- \* Snow is mainly used for text-based steganography.
- \* MP3Stego is specialized for MP3 audio files only.
- \* Stealth Files 4 is a general steganography tool but less commonly referenced for multimedia.

Forensic and academic sources identify StegVideo as a tool for multimedia steganography, useful in complex digital investigations.

## NEW QUESTION # 21

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