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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q44-Q49):

NEW QUESTION # 44

Which law requires both parties to consent to the recording of a conversation?

- A. Health Insurance Portability and Accountability Act (HIPAA)
- B. Wiretap Act

- C. Electronic Communications Privacy Act (ECPA)
- D. Stored Communications Act

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Electronic Communications Privacy Act (ECPA) regulates interception and recording of electronic communications and generally requires the consent of both parties involved in a conversation for legal recordings.

* This consent requirement protects privacy rights during investigations.

* Non-compliance can lead to evidence being inadmissible or legal penalties.

Reference:ECPA provisions are detailed in legal frameworks governing digital privacy and forensics.

NEW QUESTION # 45

What are the three basic tasks that a systems forensic specialist must keep in mind when handling evidence during a cybercrime investigation?

- A. Preserve evidence, encrypt evidence, and delete evidence
- B. Find evidence, analyze evidence, and prosecute evidence
- C. Find evidence, preserve evidence, and prepare evidence
- D. Analyze evidence, prepare evidence, and document evidence

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The fundamental tasks for a forensic specialist are to locate potential digital evidence, ensure its preservation to prevent tampering or loss, and prepare the evidence for analysis or legal proceedings. Proper handling maintains the evidentiary value of digital artifacts.

* Preservation includes using write-blockers and documenting chain of custody.

* Preparation may involve imaging, cataloging, and validating evidence.

Reference:NIST SP 800-86 emphasizes these stages as critical components of forensic processes.

NEW QUESTION # 46

Which principle of evidence collection states that access to evidence must be tracked from the time it is seized through its use in court?

- A. Audit log
- B. Evidence record
- C. Event log
- D. Chain of custody

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Chain of Custody (CoC) is the documented and unbroken transfer record of evidence handling, from seizure to presentation in court. It ensures that the evidence has been preserved, controlled, and protected from tampering or alteration.

* Evidence record documents evidence details but is less formal than CoC.

* Event log and audit log are system-generated records and do not replace the formal CoC.

* CoC is a fundamental forensic principle as outlined by NIST SP 800-86 and the Scientific Working Group on Digital Evidence (SWGDE) best practices, ensuring evidence admissibility and reliability in legal proceedings.

NEW QUESTION # 47

Which file system is supported by Mac?

- A. FAT32
- B. EXT4
- C. NTFS

- **D. Hierarchical File System Plus (HFS+)**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Mac systems traditionally use the Hierarchical File System Plus (HFS+), which supports features such as journaling and metadata handling suited for Mac OS environments. Newer versions use APFS but HFS+ remains relevant.

* NTFS is primarily a Windows file system.

* EXT4 is a Linux file system.

* FAT32 is a generic cross-platform file system but lacks advanced features.

Reference: Apple and NIST documentation confirm HFS+ as a Mac-supported file system for forensic analysis.

NEW QUESTION # 48

An organization believes that a company-owned mobile phone has been compromised.

Which software should be used to collect an image of the phone as digital evidence?

- **A. Forensic Toolkit (FTK)**
- B. Forensic SIM Cloner
- C. PTFinder
- D. Data Doctor

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Forensic Toolkit (FTK) is a widely recognized and trusted software suite in digital forensics used to acquire and analyze forensic images of devices, including mobile phones. FTK supports the creation of bit-by-bit images of digital evidence, ensuring the integrity and admissibility of the evidence in legal contexts. This imaging process is crucial in preserving the original state of the device data without alteration.

* FTK enables forensic investigators to perform logical and physical acquisitions of mobile devices.

* It maintains the integrity of the evidence by generating cryptographic hash values (MD5, SHA-1) to prove that the image is an exact copy.

* Other options such as PTFinder or Forensic SIM Cloner focus on specific tasks like SIM card cloning or targeted data extraction but do not provide full forensic imaging capabilities.

* Data Doctor is more aligned with data recovery rather than forensic imaging.

Reference: According to standard digital forensics methodologies outlined by NIST Special Publication 800-

101 (Guidelines on Mobile Device Forensics) and the SANS Institute Digital Forensics and Incident Response guides, forensic tools used to acquire mobile device images must be capable of bit-stream copying with hash verification, which FTK provides.

NEW QUESTION # 49

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