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## WGU D432 – DIGITAL FORENSICS IN CYBERSECURITY ACTUAL REAL EXAM CORRECT QUESTIONS AND ANSWERS 2024.

American Standard Code for Information Interchange (ASCII) - ANSWER >>>A set of codes defining all the various keystrokes you could make, including letters, numbers, characters, and even the spacebar and return keys.

Anonymous remailing - ANSWER >>>The process of sending an email message to an anonymizer. The anonymizer strips identifying information from an email message before forwarding it with the anonymous mailing computer's IP address.

Anti-forensics - ANSWER >>>The actions that perpetrators take to conceal their locations, activities, or identities.

Asymmetric cryptography - ANSWER >>>Cryptography wherein two keys are used: one to encrypt the message and another to decrypt it.

Asynchronous transfer mode (ATM) - ANSWER >>>A high-speed connection technology that uses fixed-length, 53-byte packets called cells.

Authenticate - ANSWER >>>To verify the identity of a person, or to verify evidence.

Base transceiver station (BTS) - ANSWER >>>The part of the cell network responsible for communications between the mobile phone and the network switching system.

Basic input/output system (BIOS) - ANSWER >>>The basic instructions stored on a chip for booting up the computer.

Bit-level information - ANSWER >>>Information at the level of actual 1s and 0s stored in memory or on the storage device.

Block cipher - ANSWER >>>A form of cryptography that encrypts data in blocks; 64-bit blocks are quite common, although some algorithms (like AES) use larger blocks.

Bootstrap environment - ANSWER >>>A special program, such as U-Boot or RedBoot, that is stored in a special section of the flash memory.

Brute-force attack - ANSWER >>>An attack in which the attacker tries to decrypt a message by simply applying every possible key in the keyspace.

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## WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q64-Q69):

### NEW QUESTION # 64

Which directory contains the system's configuration files on a computer running Mac OS X?

- A. /bin
- **B. /etc**
- C. /cfg
- D. /var

#### Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The /etc directory on Unix-based systems, including macOS, contains important system configuration files and scripts. It is the standard location for system-wide configuration data.

- \* /var contains variable data like logs and spool files.
- \* /bin contains essential binary executables.
- \* /cfg is not a standard directory in macOS.

This is standard Unix/Linux directory structure knowledge and is reflected in NIST and forensic references for macOS.

### NEW QUESTION # 65

A forensic investigator needs to identify where email messages are stored on a Microsoft Exchange server.

Which file extension is used by Exchange email servers to store the mailbox database?

- A. .db
- B. .mail
- **C. .edb**
- D. .nsf

#### Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Microsoft Exchange Server uses the .edb file extension for its Extensible Storage Engine (ESE) database files.

These .edb files contain the mailbox data including emails, calendar items, and contacts.

- \* .nsf is used by IBM Lotus Notes.
- \* .mail and .db are generic extensions but not standard for Exchange.
- \* The .edb file is the primary data store for Exchange mailboxes.

Reference: According to Microsoft technical documentation and forensic manuals, the Exchange mailbox database is stored in .edb files, which forensic examiners analyze to recover email evidence.

### NEW QUESTION # 66

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

**Answer: B**

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 # 67**

Which law or guideline lists the four states a mobile device can be in when data is extracted from it?

- **A. NIST SP 800-72 Guidelines**
- B. Communications Assistance to Law Enforcement Act (CALEA)
- C. Health Insurance Portability and Accountability Act (HIPAA)
- D. Electronic Communications Privacy Act (ECPA)

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NIST Special Publication 800-72 provides guidelines for mobile device forensics and identifies four device states during data extraction: active, idle, powered off, and locked. These states influence how data can be accessed and preserved.

- \* Understanding these states helps forensic investigators select appropriate acquisition techniques.
- \* NIST SP 800-72 is a key reference for mobile device forensic methodologies.

Reference: NIST SP 800-72 offers authoritative guidelines on handling mobile device data in forensic investigations.

**NEW QUESTION # 68**

After a company's single-purpose, dedicated messaging server is hacked by a cybercriminal, a forensics expert is hired to investigate the crime and collect evidence.

Which digital evidence should be collected?

- A. User login credentials
- **B. Firewall logs**
- C. Server configuration files
- D. Email contents

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Firewall logs record network traffic to and from the messaging server and can provide evidence of unauthorized access attempts or data exfiltration. Collecting these logs allows investigators to reconstruct the attack timeline and identify the attacker's IP address and methods.

- \* Firewall logs are critical for network-level forensics.

\* According to NIST SP 800-86, log files provide primary evidence for intrusion investigations.  
Reference:NIST guidelines on incident handling emphasize collecting firewall logs to track attacker behavior.

## NEW QUESTION # 69

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