

7 EASY (Q1–Q10)

Q1. Live system forensics deals with systems that are:

- A. Disconnected from network
- B. Powered off
- C. Actively running
- D. Decommissioned

Q2. Which type of data is lost when a system is shut down?

- A. Disk data
- B. Backup data
- C. Volatile data
- D. Archived logs

Q3. RAM data is considered:

- A. Non-volatile
- B. Volatile
- C. Archived
- D. Static

Q4. Which operating system is commonly used in servers and cloud platforms?

- A. DOS
- B. Linux
- C. macOS only
- D. BIOS

Q5. Which directory in Linux stores system logs?

- A. /bin
- B. /home
- C. /var/log
- D. /etc

Q6. Mobile forensics focuses on evidence from:

- A. Desktop computers only
- B. Network devices
- C. Mobile devices
- D. Servers

Q7. Call logs and SMS are examples of:

- A. Network evidence
- B. Mobile evidence
- C. Cloud evidence
- D. Disk evidence

Q8. Which security objective ensures evidence is not modified?

- A. Confidentiality
- B. Integrity
- C. Availability
- D. Authentication

Q9. Live forensics is commonly used during:

- A. System installation
- B. Incident response
- C. Software development
- D. Hardware upgrade

Q10. Which mobile OS is known for strong encryption by default?

- A. DOS
- B. Android
- C. iOS
- D. Linux

☐ MEDIUM (Q11–Q25)

Q11. Why is live forensics required in some investigations?

- A. To reduce storage usage
- B. To capture volatile artifacts
- C. To compress evidence
- D. To encrypt data

Q12. Which of the following is a live system artifact?

- A. Deleted files
- B. Disk partitions
- C. Running processes
- D. Backup archives

Q13. Which artifact helps identify active attacker communication?

- A. File metadata
- B. Network connections
- C. File extensions
- D. Disk geometry

Q14. Which Linux file contains user command history?

- A. /etc/passwd
- B. /var/log/syslog
- C. .bash_history
- D. /proc/meminfo

Q15. Cron jobs in Linux are mainly analyzed to detect:

- A. File corruption
- B. Persistence mechanisms
- C. Disk failures
- D. Network latency

Q16. Which Linux directory stores user personal data?

- A. /etc
- B. /var
- C. /home
- D. /boot

Q17. Timeline reconstruction in Linux forensics relies heavily on:

- A. File extensions
- B. Log files and timestamps
- C. Disk size
- D. Encryption keys

Q18. Which type of mobile data indicates user movement?

- A. SMS
- B. App cache
- C. Location data
- D. Call duration

Q19. A major challenge in mobile forensics is:

- A. Lack of data
- B. Strong encryption and privacy controls
- C. Small storage size
- D. Absence of logs

Q20. Live forensics carries higher legal risk because:

- A. Evidence is compressed
- B. Investigator actions may alter evidence
- C. Storage is limited
- D. Logs are missing

Q21. Which artifact best identifies logged-in users on a live system?

- A. File hashes
- B. Active sessions
- C. Disk sectors
- D. Backup logs

Q22. Linux forensics differs from Windows forensics mainly because Linux:

- A. Uses registry
- B. Uses text-based configuration and logs
- C. Has no logs
- D. Uses GUI only

Q23. Mobile devices are rich forensic sources because they:

- A. Have large hard disks
- B. Contain personal and sensor data
- C. Store no logs
- D. Are always offline

Q24. Which forensic practice is critical in live analysis?

- A. Shutting down system
- B. Minimal interaction principle
- C. Deleting malware
- D. Installing updates

Q25. Which data source is most volatile in mobile devices?

- A. Photos
- B. App databases
- C. RAM data
- D. SIM card

HARD (Q26–Q40)

Q26. Why is live memory acquisition prioritized before disk imaging?

- A. Disk data changes faster
- B. Memory contains volatile and critical evidence
- C. Disk imaging is illegal
- D. Memory is encrypted

Q27. Which mistake most compromises live forensic investigations?

- A. Using validated tools
- B. Powering off the system prematurely
- C. Capturing network data
- D. Documentation

Q28. Which Linux artifact best reveals unauthorized access attempts?

- A. /bin
- B. /var/log/auth.log
- C. /home
- D. /boot

Q29. Why is Linux log tampering a forensic challenge?

- A. Logs are encrypted
- B. Logs can be deleted or modified easily
- C. Logs are stored remotely
- D. Logs are binary

Q30. Which scenario most justifies live forensics?

- A. Archived server
- B. Powered-off workstation
- C. Active ransomware infection
- D. Decommissioned laptop

Q31. Which mobile forensic challenge affects cross-border investigations?

- A. Disk size
- B. Cloud data jurisdiction
- C. Battery life
- D. File extensions

Q32. Which evidence type is most sensitive to privacy concerns?

- A. System logs
- B. Mobile personal data
- C. Network topology
- D. Disk geometry

Q33. Why is hashing difficult during live forensics?

- A. Hash algorithms are slow
- B. Data changes continuously
- C. Tools are unavailable
- D. Storage is encrypted

Q34. Which Linux artifact indicates scheduled malicious execution?

- A. File permissions
- B. Cron jobs
- C. Disk partitions
- D. Swap space

Q35. Which principle is hardest to maintain in live forensics?

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

Q36. Why is mobile forensics often combined with cloud forensics?

- A. Mobile devices lack storage
- B. Apps sync data to cloud services
- C. Cloud data is unencrypted
- D. Mobile devices cannot be imaged

Q37. Which live artifact best supports detection of data exfiltration?

- A. File headers
- B. Outbound network traffic
- C. File permissions
- D. Disk partitions

Q38. Which forensic limitation arises due to full-disk encryption?

- A. Faster acquisition
- B. Restricted access to data without keys
- C. Larger storage
- D. More logs

Q39. Which comparison correctly distinguishes live and dead forensics?

- A. Live is safer than dead
- B. Dead captures volatile data
- C. Live captures volatile data
- D. Dead is legally riskier

Q40. Which outcome best reflects effective live, Linux, and mobile forensics?

- A. Faster system recovery
- B. Comprehensive and legally defensible evidence
- C. Minimal documentation
- D. Tool-dependent conclusions