

☑ EASY (Q1–Q10)

Q1. Initial assessment in digital forensics is performed to:

- A. Recover deleted files
- B. Determine scope and severity of incident
- C. Encrypt evidence
- D. Replace affected systems

Q2. Which activity is part of initial assessment?

- A. Malware reverse engineering
- B. Disk imaging
- C. Incident type identification
- D. Court testimony

Q3. An incident notification checklist ensures:

- A. Faster system boot
- B. Correct stakeholders are informed
- C. Evidence encryption
- D. Data compression

Q4. Hexadecimal number system is based on:

- A. Base-2
- B. Base-8
- C. Base-10
- D. Base-16

Q5. Which digit is valid in hexadecimal notation?

- A. G
- B. F
- C. Z
- D. H

Q6. One byte consists of:

- A. 2 bits
- B. 4 bits
- C. 8 bits
- D. 16 bits

Q7. Which unit represents 4 bits?

- A. Byte
- B. Word
- C. Nibble
- D. Sector

Q8. Hexadecimal is preferred in forensics because it:

- A. Encrypts data
- B. Compresses data
- C. Represents binary data clearly
- D. Hides evidence

Q9. File signatures are typically identified using:

- A. File names
- B. File extensions
- C. Hex values
- D. File permissions

Q10. Which security objective ensures data is accessible when required?

- A. Confidentiality
 - B. Integrity
 - C. Availability
 - D. Authentication
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☐ **MEDIUM (Q11–Q25)**

Q11. Why is scope determination important during initial assessment?

- A. To encrypt evidence
- B. To decide investigation depth
- C. To destroy malware
- D. To reduce storage

Q12. Which stakeholder must be notified first in a major data breach?

- A. Media
- B. Technical response team
- C. End users
- D. Vendors

Q13. Which action is time-critical during incident notification?

- A. Report formatting
- B. Volatile data preservation
- C. Archiving backups
- D. Evidence disposal

Q14. Decimal number 15 is represented in hexadecimal as:

- A. 0F
- B. 15
- C. 1F
- D. FF

Q15. Why is hexadecimal more compact than binary?

- A. Uses fewer symbols
- B. Uses letters
- C. Represents 4 bits per digit
- D. Encrypts bits

Q16. Which file signature identifies a PDF file?

- A. 4D 5A
- B. FF D8 FF
- C. 25 50 44 46
- D. 50 4B 03 04

Q17. Memory dumps are usually analyzed using:

- A. ASCII only
- B. Hexadecimal representation
- C. Decimal tables
- D. Encryption tools

Q18. Which component stores data in binary at the lowest level?

- A. File system
- B. Application
- C. Memory and disk sectors
- D. User interface

Q19. Why must investigators understand bits and bytes?

- A. To write code
- B. To interpret raw evidence correctly
- C. To design networks
- D. To encrypt storage

Q20. Which decision is made during initial assessment?

- A. Final verdict
- B. Investigation strategy
- C. Court admissibility
- D. Encryption method

Q21. Incident severity is usually determined based on:

- A. Disk size
- B. Number of users affected
- C. File extensions
- D. OS version

Q22. Which data representation is closest to raw disk data?

- A. ASCII
- B. Hexadecimal
- C. Unicode
- D. Base64

Q23. Why are file headers checked during forensic analysis?

- A. To compress files
- B. To verify true file type
- C. To encrypt content
- D. To reduce size

Q24. A wrong initial assessment can result in:

- A. Faster investigation
- B. Loss of critical evidence
- C. Better reporting
- D. Reduced costs

Q25. Which artifact helps detect file tampering?

- A. File name
- B. File extension
- C. Hex signature mismatch
- D. Folder location

HARD (Q26–Q40)

Q26. Why is hexadecimal essential when analyzing disk sectors?

- A. Sectors are encrypted
- B. Sectors are stored in ASCII
- C. Sectors are stored as binary data
- D. Sectors store metadata only

Q27. Which error most often occurs due to poor initial assessment?

- A. Weak hashing
- B. Incomplete scope coverage
- C. Tool incompatibility
- D. Slow response

Q28. Why should legal teams be notified early in incidents?

- A. To speed investigation
- B. To ensure lawful actions
- C. To compress evidence
- D. To analyze malware

Q29. Decimal value 255 in hexadecimal is:

- A. 0F
- B. FF
- C. F0
- D. 1FF

Q30. Which representation is easiest for humans to read raw binary data?

- A. Binary
- B. Decimal
- C. Hexadecimal
- D. Octal

Q31. Which forensic task heavily depends on hex analysis?

- A. Incident reporting
- B. File signature verification
- C. User interviews
- D. Risk assessment

Q32. Which incident type usually demands immediate notification to regulators?

- A. Malware infection
- B. Policy violation
- C. Personal data breach
- D. System crash

Q33. Why is understanding endianness important in hex analysis?

- A. Prevents encryption
- B. Avoids misinterpreting byte order
- C. Improves compression
- D. Speeds analysis

Q34. Which scenario requires low-level data interpretation?

- A. Policy drafting
- B. Disk corruption analysis
- C. User awareness training
- D. Incident reporting

Q35. Which mistake can occur while interpreting hex data?

- A. Using write blockers
- B. Ignoring file offsets
- C. Hash verification
- D. Disk imaging

Q36. Why is hexadecimal preferred over decimal in memory analysis?

- A. Decimal is encrypted
- B. Hex maps directly to binary
- C. Decimal is larger
- D. Hex compresses memory

Q37. Which security objective is most threatened by incorrect hex interpretation?

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

Q38. Why must initial assessment be documented?

- A. For encryption
- B. For legal accountability
- C. For data recovery
- D. For compression

Q39. Which forensic example best uses hex values?

- A. Email content reading
- B. File type identification
- C. User authentication
- D. Incident escalation

Q40. Failure in incident notification primarily affects:

- A. Evidence size
- B. Legal compliance
- C. Disk performance
- D. System speed