

# Test Bank for Guide to Computer Forensics and Investigations 6th Edition by Nelson

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# Test Bank

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Chapter 02: The Investigator's Office and Laboratory

True / False

1. A forensics analysis of a 6 TB disk, for example, can take several days or weeks.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

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2. Requirements for taking the EnCE certification exam depend on taking the Guidance Software EnCase training courses.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 12/1/2017 12:57 PM

3. If damage occurs to the floor, walls, ceilings, or furniture on your computer forensics lab, it does not need to be repaired immediately.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: Determining the Physical Requirements for a Digital Forensics Lab

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 12/1/2017 12:57 PM

4. A good working practice is to use less powerful workstations for mundane tasks and multipurpose workstations for the higher-end analysis tasks.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

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## Chapter 02: The Investigator's Office and Laboratory

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

*DATE MODIFIED:* 12/1/2017 12:57 PM

5. Computing systems in a forensics lab should be able to process typical cases in a timely manner.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Selecting a Basic Forensic Workstation

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

*DATE MODIFIED:* 12/1/2017 12:57 PM

6. By using marketing to attract new customers or clients, you can justify future budgets for the lab's operation and staff.

a. True

b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Building a Business Case for Developing a Forensics Lab

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 1/18/2018 7:06 PM

*DATE MODIFIED:* 1/18/2018 7:13 PM

7. The ANSI-ASQ National Accreditation Board (ANAB) is a wholly owned subsidiary of the American Society of Crime Laboratory Directors (ASCLD).

a. True

b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Understanding Forensics Lab Accreditation Requirements

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 1/18/2018 7:09 PM

*DATE MODIFIED:* 1/18/2018 7:13 PM

8. The lab manager sets up processes for managing cases and reviews them regularly.

a. True

b. False

*ANSWER:* True

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## Chapter 02: The Investigator's Office and Laboratory

*POINTS:* 1

*REFERENCES:* Understanding Forensics Lab Accreditation Requirements

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 1/18/2018 7:12 PM

*DATE MODIFIED:* 1/18/2018 7:12 PM

9. For daily work production, several examiners can work together in a large open area, as long as they all have different levels of authority and access needs.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Determining the Physical Requirements for a Digital Forensics Lab

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 1/18/2018 7:14 PM

*DATE MODIFIED:* 1/18/2018 7:15 PM

10. Chapter 5, Section 3, of the NISPOM describes the characteristics of a safe storage container.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Determining the Physical Requirements for a Digital Forensics Lab

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

*DATE CREATED:* 1/18/2018 7:16 PM

*DATE MODIFIED:* 1/18/2018 7:17 PM

### Multiple Choice

11. At what location does the forensics investigator conduct investigations, store evidence, and do most of his or her work?

- a. The forensic workstation
- b. The digital forensics lab
- c. The data management room
- d. The computer analysis lab

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* Understanding Forensics Lab Accreditation Requirements

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

*DATE MODIFIED:* 5/7/2018 11:30 AM

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## Chapter 02: The Investigator's Office and Laboratory

12. At what levels should lab costs be broken down?

- a. Daily, weekly, and monthly
- b. Weekly, monthly, and annually
- c. Monthly, bimonthly, and quarterly
- d. Monthly, quarterly, and annually

ANSWER: d

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

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13. What reports are generated at the local, state, and federal levels to show the types and frequency of crimes committed?

- a. Officer activity reports
- b. Cooperative agreement reports
- c. Uniform crime reports
- d. Mandated crime reports

ANSWER: c

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 5/7/2018 11:35 AM

14. In addition to FAT16, FAT32, and Resilient File System, which file system can Windows hard disks also use?

- a. NTFS
- b. ext3
- c. FAT24
- d. ext2

ANSWER: a

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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DATE MODIFIED: 5/7/2018 12:14 PM

15. What organization was created by police officers in order to formalize credentials for digital investigators?

- a. HTCN
- b. NISPOM
- c. TEMPEST
- d. IACIS

ANSWER: d

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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16. How frequently does IACIS require recertification to demonstrate continuing work in the field of computer forensics?

- a. Every 2 years      b. Every 3 years
- c. Every 4 years      d. Every 5 years

ANSWER:            b

POINTS:            1

REFERENCES:      Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE:   Multiple Choice

HAS VARIABLES:   False

DATE CREATED:    12/1/2017 12:57 PM

DATE MODIFIED:   6/4/2018 3:01 PM

17. What HTCEN certification level requires candidates have three years of experience in computing investigations for law enforcement or corporate cases?

- a. Certified Computer Crime Investigator, Basic Level
- b. Certified Computer Crime Investigator, Advanced Level
- c. Certified Computer Forensic Technician, Basic
- d. Certified Computer Forensic Technician, Advanced

ANSWER:            c

POINTS:            1

REFERENCES:      Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE:   Multiple Choice

HAS VARIABLES:   False

DATE CREATED:    12/1/2017 12:57 PM

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18. What kind of forensic investigation lab best preserves the integrity of evidence?

- a. A shielded enclosure      b. A protected entity
- c. A fortified workplace      d. A secure facility

ANSWER:            d

POINTS:            1

REFERENCES:      Determining the Physical Requirements for a Digital Forensics Lab

QUESTION TYPE:   Multiple Choice

HAS VARIABLES:   False

DATE CREATED:    12/1/2017 12:57 PM

DATE MODIFIED:   5/7/2018 12:56 PM

19. At what distance can the EMR from a computer monitor be picked up?

- a. 1/4 mile      b. 1/2 mile
- c. 3/4 mile      d. 1 mile

ANSWER:            b

POINTS:            1

REFERENCES:      Determining the Physical Requirements for a Digital Forensics Lab

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*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

*DATE MODIFIED:* 6/4/2018 2:59 PM

20. During the Cold War, defense contractors were required to shield sensitive computing systems and prevent electronic eavesdropping of any computer emissions. What did the U.S. Department of Defense call this special computer-emission shielding?

- a. TEMPEST
- b. RAID
- c. NISPOM
- d. EMR

*ANSWER:* a

*POINTS:* 1

*REFERENCES:* Determining the Physical Requirements for a Digital Forensics Lab

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

*DATE MODIFIED:* 5/7/2018 12:16 PM

21. What material is recommended for secure storage containers and cabinets?

- a. Gypsum
- b. Steel
- c. Wood
- d. Expanded metal

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* Determining the Physical Requirements for a Digital Forensics Lab

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

*DATE MODIFIED:* 5/7/2018 11:45 AM

22. How frequently should floors and carpets in the computer forensic lab be cleaned to help minimize dust that can cause static electricity?

- a. At least once a week
- b. At least twice a week
- c. At least three times a week
- d. At least four times a week

*ANSWER:* a

*POINTS:* 1

*REFERENCES:* Determining the Physical Requirements for a Digital Forensics Lab

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 12/1/2017 12:57 PM

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23. Which resource can be helpful when investigating older and unusual computing systems?

- a. AICIS lists
- b. Uniform reports

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- c. Forums and blogs      d. Minix

ANSWER: c

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 5/7/2018 11:49 AM

24. What type of plan specifies how to rebuild a forensic workstation after it has been severely contaminated by a virus from a drive you're analyzing?

- a. Disaster recovery      b. Risk management  
c. Configuration management      d. Security

ANSWER: a

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 5/7/2018 11:55 AM

25. Where should your computer backups be kept?

- a. Any convenient location      b. A colleague's computer  
c. An off-site facility      d. In the Cloud

ANSWER: c

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 5/7/2018 11:59 AM

26. What process refers to recording all the updates made to a workstation?

- a. Configuration management      b. Risk minimization  
c. Recovery logging      d. Change logging

ANSWER: a

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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27. Methods for restoring large data sets are important for labs using which type of servers?

- a. RAID      b. ISDN
- c. WAN      d. TEMPEST

ANSWER: a

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

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28. Which activity involves determining how much risk is acceptable for any process or operation?

- a. Risk configuration      b. Risk analysis
- c. Risk control      d. Risk management

ANSWER: d

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

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29. What is the maximum amount of time computing components are designed to last in normal business operations?

- a. 24 months      b. 30 months
- c. 36 months      d. 42 months

ANSWER: c

POINTS: 1

REFERENCES: Selecting a Basic Forensic Workstation

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

DATE MODIFIED: 5/7/2018 12:05 PM

30. In what process is the acquisition of newer and better resources for investigation justified?

- a. Conducting a risk evaluation      b. Building a business case
- c. Modifying the configuration plan      d. Creating an upgrade policy

ANSWER: b

POINTS: 1

REFERENCES: Building a Business Case for Developing a Forensics Lab

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/1/2017 12:57 PM

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## Chapter 02: The Investigator's Office and Laboratory

### Matching

*Match each item with a statement below*

- a. Lab manager
- b. Guidance Software
- c. Business case
- d. FREDC
- e. ANAB
- f. Uniform Crime Report
- g. SCADA
- h. Norton Ghost
- i. Disaster recovery plan
- j. IACIS

**REFERENCES:** Building a Business Case for Developing a Forensics Lab  
Selecting a Basic Forensic Workstation  
Understanding Forensics Lab Accreditation Requirements

**QUESTION TYPE:** Matching

**HAS VARIABLES:** False

**DATE CREATED:** 12/1/2017 12:57 PM

**DATE MODIFIED:** 1/22/2018 5:56 PM

31. Sponsors the EnCE certification program

**ANSWER:** b

**POINTS:** 1

32. A high-end RAID server from Digital Intelligence

**ANSWER:** d

**POINTS:** 1

33. A plan you can use to sell your services to your management or clients

**ANSWER:** c

**POINTS:** 1

34. Stands for supervisory control and data acquisition

**ANSWER:** g

**POINTS:** 1

35. Tool for directly restoring files

**ANSWER:** h

**POINTS:** 1

36. Addresses how to restore a workstation you reconfigured for a specific investigation

**ANSWER:** i

**POINTS:** 1

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37. Creates and monitors lab policies for staff and provides a safe and secure workplace for staff and evidence

ANSWER: a

POINTS: 1

38. Identifies the number of hard disk types, such as SATA or SCSI, and the OS used to commit crimes

ANSWER: f

POINTS: 1

39. Provides accreditation of crime and forensics labs worldwide

ANSWER: e

POINTS: 1

40. One of the oldest professional digital forensics organizations

ANSWER: j

POINTS: 1

### Subjective Short Answer

41. What are the duties of a lab manager?

ANSWER: The lab manager sets up the processes for managing cases and reviews them regularly. Besides performing general management tasks, such as promoting group consensus in decision making, maintaining fiscal responsibility for lab needs, and enforcing ethical standards among staff members, the lab manager plans updates for the lab, such as new hardware and software purchases.

The lab manager also establishes and promotes quality assurance processes for the lab's staff to follow, such as outlining what to do when a case arrives, logging evidence, specifying who can enter the lab, and establishing guidelines for filing reports. To ensure the lab's efficiency, the lab manager also sets reasonable production schedules for processing work.

POINTS: 1

REFERENCES: Understanding Forensics Lab Accreditation Requirements

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

STUDENT ENTRY MODE: Basic

DATE CREATED: 12/1/2017 12:57 PM

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42. Provide a brief explanation of how to plan a lab budget.

ANSWER: Lab costs can be broken down into monthly, quarterly, and annual expenses. The better you understand these expenses, the better you can delegate resources for each investigation. Using a spreadsheet program helps you keep track of past investigation expenses so that you can extrapolate expected future costs. Remember that expenses include purchasing computer hardware and software, renting facility space, and trained personnel. When creating a budget, start by estimating the number of cases your lab expects to examine and identifying the types of computers you're likely to examine, such as Windows PCs, Apple systems, or Linux workstations.

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**POINTS:** 1  
**REFERENCES:** Understanding Forensics Lab Accreditation Requirements  
**QUESTION TYPE:** Subjective Short Answer  
**HAS VARIABLES:** False  
**STUDENT ENTRY MODE:** Basic  
**DATE CREATED:** 12/1/2017 12:57 PM  
**DATE MODIFIED:** 1/18/2018 8:08 PM

43. What are the four levels of certification offered by HTCEN?

**ANSWER:** Certified Computer Crime Investigator, Basic Level  
Certified Computer Crime Investigator, Advanced Level  
Certified Computer Forensic Technician, Basic  
Certified Computer Forensic Technician, Advanced

**POINTS:** 1  
**REFERENCES:** Understanding Forensics Lab Accreditation Requirements  
**QUESTION TYPE:** Subjective Short Answer  
**HAS VARIABLES:** False  
**STUDENT ENTRY MODE:** Basic  
**DATE CREATED:** 12/1/2017 12:57 PM  
**DATE MODIFIED:** 12/1/2017 12:57 PM

44. What are the minimum requirements for a computer investigation and forensics lab?

**ANSWER:** Small room with true floor-to-ceiling walls  
Door access with a locking mechanism (limited to authorized users, including cleaning crews), which can be a regular key lock, combination lock, or an electronic lock capable of logging who accessed it  
Secure container, such as a safe or heavy-duty file cabinet with a quality padlock that prevents drawers from opening  
Visitor's log with legible entries listing all people who have accessed the lab and showing the date, time in, and time out

**POINTS:** 1  
**REFERENCES:** Determining the Physical Requirements for a Digital Forensics Lab  
**QUESTION TYPE:** Subjective Short Answer  
**HAS VARIABLES:** False  
**STUDENT ENTRY MODE:** Basic  
**DATE CREATED:** 12/1/2017 12:57 PM  
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45. Illustrate a proper way of disposing materials on your computer investigation lab.

**ANSWER:** Maintain two separate trash containers, one to store items unrelated to an investigation, such as discarded CDs, and the other for sensitive material that requires special handling to make sure it's destroyed. Using separate trash containers maintains the integrity of criminal investigation processes and protects trade secrets and attorney-client privileged communications in a private company. Several commercially bonded firms specialize in disposing of sensitive materials, and you should hire one to help maintain the integrity of your investigations.

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**POINTS:** 1  
**REFERENCES:** Determining the Physical Requirements for a Digital Forensics Lab  
**QUESTION TYPE:** Subjective Short Answer  
**HAS VARIABLES:** False  
**STUDENT ENTRY MODE:** Basic  
**DATE CREATED:** 12/1/2017 12:57 PM  
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46. Give a brief explanation of a computer forensics lab auditing process.

**ANSWER:** To make sure security policies and practices are followed, conduct routine inspections to audit your lab and evidence storage containers. Audits should include, but aren't limited to, the following facility components and practices:

- Inspect the lab's ceiling, floor, roof, and exterior walls at least once a month, looking for anything unusual or new.
- Inspect doors to make sure they close and lock correctly.
- Check locks to see whether they need to be replaced or changed.
- Review visitor logs to see whether they're being used properly.
- Review log sheets for evidence containers to determine when they have been opened and closed.
- At the end of every workday, secure any evidence that's not being processed on a forensic workstation.

**POINTS:** 1  
**REFERENCES:** Determining the Physical Requirements for a Digital Forensics Lab  
**QUESTION TYPE:** Subjective Short Answer  
**HAS VARIABLES:** False  
**STUDENT ENTRY MODE:** Basic  
**DATE CREATED:** 12/1/2017 12:57 PM  
**DATE MODIFIED:** 1/18/2018 8:20 PM

47. Briefly outline the process of selecting workstations for a police computer investigation lab.

**ANSWER:** For small, local police departments, most work involves Windows PCs, Macintosh systems, and mobile devices. A small police department's digital forensics lab could be limited to one multipurpose forensic workstation with one or two basic workstations or high-end laptops.

**POINTS:** 1  
**REFERENCES:** Selecting a Basic Forensic Workstation  
**QUESTION TYPE:** Subjective Short Answer  
**HAS VARIABLES:** False  
**STUDENT ENTRY MODE:** Basic  
**DATE CREATED:** 12/1/2017 12:57 PM  
**DATE MODIFIED:** 1/18/2018 8:26 PM

48. What peripheral devices should be stocked in your computer forensics lab?

**ANSWER:** In addition to workstations and software, all labs should have a wide assortment of cables and spare expansion slot cards. Consider stocking your forensics lab with the following peripheral devices:

- \* A digital camera capable of still and motion recording

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- \* Assorted antistatic bags
- \* An external CD/DVD drive
- \* 40-pin 18-inch and 36-inch IDE cables, both ATA-33 and ATA-100 or faster
- \* Ribbon cables for floppy disks
- \* Extra USB 3.0 or newer cables and SATA cards and associated cables
- \* Extra SCSI cards, preferably ultra-wide
- \* Graphics cards, both Peripheral Component Interconnect (PCI) and Accelerated Graphics Port (AGP)
- \* Assorted FireWire and USB adapters
- \* A variety of hard drives and USB drives (as many as you can afford and in as wide a variety as possible)
- \* At least two 2.5-inch adapters from notebook IDE hard drives to standard IDE/ATA drives, SATA drives, and so on
- \* Computer hand tools, such as Phillips and flathead screwdrivers, a socket wrench, any vendor-specific tools, a small flashlight, and an antistatic wrist strap

**POINTS:** 1

**REFERENCES:** Selecting a Basic Forensic Workstation

**QUESTION TYPE:** Subjective Short Answer

**HAS VARIABLES:** False

**STUDENT ENTRY MODE:** Basic

**DATE CREATED:** 12/1/2017 12:57 PM

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49. Discuss the use of a laptop PC as a forensic workstation.

**ANSWER:** Improvements in hardware technology offer more flexibility in digital forensics. You can now use a laptop system with USB 3.0 or SATA hard disks to create a lightweight, mobile forensic workstation. Improved throughput speeds of data transfer on laptops also make it easier to create images of suspect drives, especially in the field.

**POINTS:** 1

**REFERENCES:** Selecting a Basic Forensic Workstation

**QUESTION TYPE:** Subjective Short Answer

**HAS VARIABLES:** False

**STUDENT ENTRY MODE:** Basic

**DATE CREATED:** 12/1/2017 12:57 PM

**DATE MODIFIED:** 1/18/2018 8:33 PM

50. What are the questions you need to ask when planning the justification step of a business case?

**ANSWER:** Before you can start, you need to justify to the person controlling the budget the reason a lab is needed. This justification step requires asking the following questions:

- \* What type of digital investigation service is needed for your organization?
- \* Who are the potential customers for this service, and how will it be budgeted—as an internal operation (police department or company security department, for instance)—or an external operation (a for-profit business venture)?
- \* How will you advertise your services to customers?
- \* What time-management techniques will you use?
- \* Where will the initial and sustaining budget for business operations come from?

**POINTS:** 1

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*REFERENCES:* Building a Business Case for Developing a Forensics Lab

*QUESTION TYPE:* Subjective Short Answer

*HAS VARIABLES:* False

*STUDENT ENTRY MODE:* Basic

*DATE CREATED:* 12/1/2017 12:57 PM

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