EXAM CRAM

CompTIA® A+®

Core 1 (220-1001)
Core 2 (220-1002)

Practice Questions

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CERTIFICATION

DAVID L. PROWSE

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EXAM CRAM

CompTIA® A+ Practice Questions Exam Cram Core 1 (220-1001) and Core 2 (220-1002)

David L. Prowse

PEARSON IT
CERTIFICATION

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David L Prowse

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As the reader of this book, *you* are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, what areas you'd like to see us publish in, and any other words of wisdom you're willing to pass our way.

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When you write, please be sure to include this book's title and author as well as your name and email address. We will carefully review your comments and share them with the author and editors who worked on the book.

Introduction

Welcome to *CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) Practice Questions Exam Cram*. The sole purpose of this book is to provide you with practice questions that are complete with answers and explanations to help you learn, drill, and review for the CompTIA A+ certification exams. The book offers 480 questions that help you practice each exam domain and help you assess your knowledge before you take the real exams. The detailed answers to every question aid in reinforcing your knowledge about the concepts associated with the 1000 series of the CompTIA A+ exams.

Who This Book Is For

The CompTIA A+ exams are designed for individuals with at least 12 months of hands-on experience in the lab or field. If you have that experience, this book will be an excellent late-stage study tool. However, if you have not acquired that experience, I recommend that you register for a hands-on A+ course or, at the very least, purchase an A+ study guide such as the *CompTIA A+ Core 220-1001 and Core 220-1002 Exam Cram* textbook or consider my *A+ Complete Video Course*. After you take the course and/or read the study guide, return to this book as your late-stage test preparation to be used just before taking the real exams.

CHAPTER 2

220-1001 Practice Exam A

Quick Check

Welcome to the first 220-1001 practice exam. This is the easiest of the 220-1001 exams. The subsequent exams will get progressively harder.

Take this first exam slowly. The goal is to make sure you understand all of the concepts before moving on to the next test.

Write down your answers, and check them against the Quick-Check Answer Key, which immediately follows the exam. After the answer key, you will find the explanations for all of the answers. Good luck!

Practice Questions

1. Which of the following are components you might find inside a PC? (Select the three best answers.)

Quick Answer: **24**
Detailed Answer: **25**

- ❑ **A.** CPU
- ❑ **B.** Motherboard
- ❑ **C.** Keyboard
- ❑ **D.** Printer
- ❑ **E.** RAM
- ❑ **F.** Cable modem

2. Which device stores data over the long term?

Quick Answer: **24**
Detailed Answer: **25**

- ❍ **A.** CPU
- ❍ **B.** RAM
- ❍ **C.** Hard drive
- ❍ **D.** Video card

Quick Check

3. To which type of technology would you install a x16 card?

- ❍ **A.** Thunderbolt
- ❍ **B.** PCIe
- ❍ **C.** USB
- ❍ **D.** DisplayPort

Quick Answer: **24**
Detailed Answer: **25**

4. Which process of the computer checks all your components during boot?

- ❍ **A.** CMOS
- ❍ **B.** POST
- ❍ **C.** BIOS
- ❍ **D.** Lithium battery

Quick Answer: **24**
Detailed Answer: **25**

5. Tim installs a new CPU in a computer. After a few hours, the processor starts to overheat. Which of the following might be the cause?

- ❍ **A.** The CPU is not locked down.
- ❍ **B.** The CPU is not properly seated.
- ❍ **C.** Thermal compound was not applied.
- ❍ **D.** The CPU is not compatible with the motherboard.

Quick Answer: **24**
Detailed Answer: **25**

6. Which of the following could cause the POST to fail? (Select the two best answers.)

- ❑ **A.** CPU
- ❑ **B.** Power supply
- ❑ **C.** Optical drive
- ❑ **D.** Memory
- ❑ **E.** Hard drive

Quick Answer: **24**
Detailed Answer: **26**

7. Which of the following might you find as part of a tablet computer? (Select the two best answers.)

- ❑ **A.** Flash memory
- ❑ **B.** SATA hard drive
- ❑ **C.** Multi-touch touchscreen
- ❑ **D.** 24-inch display

Quick Answer: **24**
Detailed Answer: **26**

Quick Check

8. Which kind of socket incorporates "lands" to ensure connectivity to a CPU?

   ❍ **A.** PGA
   ❍ **B.** Chipset
   ❍ **C.** LGA
   ❍ **D.** Copper

Quick Answer: **24**
Detailed Answer: **26**

9. How should you hold RAM when installing it?

   ❍ **A.** By the edges
   ❍ **B.** By the front and back
   ❍ **C.** With tweezers
   ❍ **D.** With a punchdown tool

Quick Answer: **24**
Detailed Answer: **26**

10. You have been tasked with setting up a specialized computer for video editing. Which of the following should you include with the computer? (Select the two best answers.)

    ❑ **A.** Gigabit NIC
    ❑ **B.** Hypervisor
    ❑ **C.** SSD
    ❑ **D.** Docking station
    ❑ **E.** Dual monitors
    ❑ **F.** NAS

Quick Answer: **24**
Detailed Answer: **26**

11. How many pins are inside an SATA 3.0 data connector?

    ❍ **A.** 15
    ❍ **B.** 7
    ❍ **C.** 24
    ❍ **D.** 127

Quick Answer: **24**
Detailed Answer: **27**

12. What is the delay in the RAM's response to a request from the memory controller called?

    ❍ **A.** Latency
    ❍ **B.** Standard deviation
    ❍ **C.** Fetch interval
    ❍ **D.** Lag

Quick Answer: **24**
Detailed Answer: **27**

Quick Check

13. What is the minimum number of hard drives necessary to implement RAID 5?

- ❍ **A.** Two
- ❍ **B.** Five
- ❍ **C.** Three
- ❍ **D.** Four

Quick Answer: **24**
Detailed Answer: **27**

14. A user's time and date keep resetting to January 1, 2012. Which of the following is the most likely cause?

- ❍ **A.** The BIOS needs to be updated.
- ❍ **B.** Windows needs to be updated.
- ❍ **C.** The Windows Date and Time Properties window needs to be modified.
- ❍ **D.** The lithium battery needs to be replaced.

Quick Answer: **24**
Detailed Answer: **27**

15. Which type of adapter card is normally plugged into a PCIe x16 adapter card slot?

- ❍ **A.** Modem
- ❍ **B.** Video
- ❍ **C.** NIC
- ❍ **D.** Sound

Quick Answer: **24**
Detailed Answer: **27**

16. Which of the following is a common type of CPU for a smartphone?

- ❍ **A.** LGA 2011
- ❍ **B.** SoC
- ❍ **C.** Core i7
- ❍ **D.** LPDDR

Quick Answer: **24**
Detailed Answer: **28**

17. Which of the following components could cause the POST to beep several times and fail during boot?

- ❍ **A.** Sound card
- ❍ **B.** Power supply
- ❍ **C.** Hard drive
- ❍ **D.** RAM

Quick Answer: **24**
Detailed Answer: **28**

Quick Check

18. Which of the following are ports you might find on smartphones and tablets? (Select the two best answers.)

- ❑ **A.** eSATA
- ❑ **B.** USB-C
- ❑ **C.** Lightning
- ❑ **D.** DVI

Quick Answer: **24**
Detailed Answer: **28**

19. Which of the following has the fastest data throughput?

- ❍ **A.** CD-ROM
- ❍ **B.** Hard drive
- ❍ **C.** RAM
- ❍ **D.** USB

Quick Answer: **24**
Detailed Answer: **28**

20. Which of the following CPU cooling methods is the most common?

- ❍ **A.** Heat sink
- ❍ **B.** Heat sink and fan
- ❍ **C.** Liquid cooling
- ❍ **D.** Liquid nitrogen

Quick Answer: **24**
Detailed Answer: **29**

21. You are tasked with fixing a problem with a video editing workstation. There is an unexpected clicking noise every time the video editing program is started. The case fans have been replaced, but the noise remains. Diagnostics have also been run on the video card, and it appears to be operating normally. What action should you take first?

- ❍ **A.** Perform a System Restore.
- ❍ **B.** Replace the video card.
- ❍ **C.** Replace the hard drive.
- ❍ **D.** Perform a full data backup.
- ❍ **E.** Scan for malware.

Quick Answer: **24**
Detailed Answer: **29**

22. Which of the following is not a video port?

- ❍ **A.** DVI
- ❍ **B.** HDMI
- ❍ **C.** DisplayPort
- ❍ **D.** S/PDIF

Quick Answer: **24**
Detailed Answer: **29**

Quick Check

23. Which of the following is necessary for a CAD/CAM workstation? (Select the two best answers.)

Quick Answer: **24**
Detailed Answer: **29**

- ❑ **A.** SSD
- ❑ **B.** HDMI output
- ❑ **C.** Surround sound
- ❑ **D.** High-end video

24. Which of the following technologies allows two mobile devices to transfer data simply by touching them together?

Quick Answer: **24**
Detailed Answer: **30**

- ❍ **A.** USB
- ❍ **B.** NFC
- ❍ **C.** Bluetooth
- ❍ **D.** Wi-Fi

25. What type of power connector is used for a x16 video card?

Quick Answer: **24**
Detailed Answer: **30**

- ❍ **A.** Molex 4-pin
- ❍ **B.** SATA 15-pin
- ❍ **C.** PCIe 6-pin
- ❍ **D.** P1 24-pin

26. Which of the following are output devices? (Select the three best answers.)

Quick Answer: **24**
Detailed Answer: **30**

- ❑ **A.** Speakers
- ❑ **B.** Keyboard
- ❑ **C.** Mouse
- ❑ **D.** Printer
- ❑ **E.** Display
- ❑ **F.** Touchpad

27. What does the b in 1000 Mbps stand for?

Quick Answer: **24**
Detailed Answer: **30**

- ❍ **A.** Megabytes
- ❍ **B.** Bits
- ❍ **C.** Bytes
- ❍ **D.** Bandwidth

Quick Check

28. When running cable through drop ceilings, which type of cable do you need?

- ❍ **A.** PVC
- ❍ **B.** Category 5
- ❍ **C.** Strong cable
- ❍ **D.** Plenum

Quick Answer: **24**
Detailed Answer: **30**

29. Which device connects multiple computers in a LAN?

- ❍ **A.** Modem
- ❍ **B.** Router
- ❍ **C.** Switch
- ❍ **D.** Firewall

Quick Answer: **24**
Detailed Answer: **31**

30. Which of the following is the default subnet mask for IP address 192.168.1.1?

- ❍ **A.** 255.255.0.0
- ❍ **B.** 255.255.255.0
- ❍ **C.** 255.0.0.0
- ❍ **D.** 255.255.255.255

Quick Answer: **24**
Detailed Answer: **31**

31. Which of the following is the minimum category cable needed for a 1000BASE-T network?

- ❍ **A.** Category 3
- ❍ **B.** Category 5
- ❍ **C.** Category 5e
- ❍ **D.** Category 6

Quick Answer: **24**
Detailed Answer: **31**

32. Which of the following IP addresses can be routed across the Internet?

- ❍ **A.** 127.0.0.1
- ❍ **B.** 192.168.1.1
- ❍ **C.** 129.52.50.13
- ❍ **D.** 10.52.50.13

Quick Answer: **24**
Detailed Answer: **31**

33. Which port number is used by HTTPS by default?

- ❍ **A.** 21
- ❍ **B.** 25
- ❍ **C.** 80
- ❍ **D.** 443

Quick Answer: **24**
Detailed Answer: **31**

Quick Check

34. Which of the following cable types have a copper medium? (Select the three best answers.)

- ❑ **A.** Twisted pair
- ❑ **B.** Coaxial
- ❑ **C.** Fiber optic
- ❑ **D.** Cat 7
- ❑ **E.** Multimode

Quick Answer: **24**
Detailed Answer: **32**

35. Which of the following cable types can protect from electromagnetic interference (EMI)? (Select the two best answers.)

- ❑ **A.** UTP
- ❑ **B.** STP
- ❑ **C.** Fiber optic
- ❑ **D.** Cat 6

Quick Answer: **24**
Detailed Answer: **32**

36. You are configuring Bob's computer to access the Internet. Which of the following are required? (Select all that apply.)

- ❑ **A.** DNS server address
- ❑ **B.** Gateway address
- ❑ **C.** Email server name
- ❑ **D.** DHCP server address
- ❑ **E.** Domain name

Quick Answer: **24**
Detailed Answer: **32**

37. Which of the following translates a computer name into an IP address?

- ❍ **A.** TCP
- ❍ **B.** UDP
- ❍ **C.** DNS
- ❍ **D.** FTP

Quick Answer: **24**
Detailed Answer: **32**

38. A customer wants to access the Internet from many different locations in the United States. Which of the following is the best technology to enable the customer to do so?

- ❍ **A.** Infrared
- ❍ **B.** Cellular WAN
- ❍ **C.** Bluetooth
- ❍ **D.** 802.11ac

Quick Answer: **24**
Detailed Answer: **32**

Quick Check

39. You just configured the IP address 192.168.0.105 in Windows. When you press the Tab key, Windows automatically configures the default subnet mask of 255.255.255.0. Which of the following IP addresses is a suitable gateway address?

- ❍ **A.** 192.168.1.100
- ❍ **B.** 192.168.1.1
- ❍ **C.** 192.168.10.1
- ❍ **D.** 192.168.0.1

Quick Answer: **24**
Detailed Answer: **33**

40. A wireless network is referred to as which of the following?

- ❍ **A.** SSID
- ❍ **B.** WPA
- ❍ **C.** DMZ
- ❍ **D.** DHCP

Quick Answer: **24**
Detailed Answer: **33**