

# CompTIA A+ Core 1 (220-1201)

## 100 Questions & Answers

*This collection is designed not just to quiz you — but to **build your real-world readiness** for the CompTIA A+ Core 1 certification exam. It mirrors actual exam phrasing and structure and helps **reinforce the practical, technical knowledge you'll need in support roles.***



## Learning Objectives and Expectations

You'll get:

- **Realistic questions** that reflect the actual CompTIA A+ Core 1 format and style.
- **Structured format:** 10 questions followed by 10 answers.
- **Clear explanations** focused on what to remember for test day — and why the correct answers matter in real-world IT support.

## A+ Core 1 (220-1201) Domains

Each domain is weighted differently on the exam. **Hardware and troubleshooting** are the most heavily tested areas:

- **Domain 1:** Mobile devices (13%)
- **Domain 2:** Networking (23%)
- **Domain 3:** Hardware (25%)
- **Domain 4:** Virtualization and cloud computing (11%)
- **Domain 5:** Hardware and network troubleshooting (28%)

## Quick Reminder: How the Exam Works

- **Number of Questions:** Up to 90
- **Format:** Multiple choice + Performance-Based Questions (PBQs)
- **Time Limit:** 90 minutes
- **Passing Score:** 675 out of 900 (approx. 75%)
- **Test Provider:** Pearson VUE (in person or online)

## Questions By Domain

Domain	Title	Questions Assigned	Question Numbers
<b>Domain 1</b>	Mobile Devices (13%)	13 Questions	Q1, Q6, Q8, Q23, Q29, Q33, Q43, Q61, Q69, Q74, Q83, Q92, Q93
<b>Domain 2</b>	Networking (23%)	23 Questions	Q2, Q3, Q4, Q7, Q10, Q14, Q20, Q25, Q28, Q34, Q38, Q47, Q53, Q54, Q55, Q60, Q64, Q65, Q70, Q73, Q78, Q94, Q95
<b>Domain 3</b>	Hardware (25%)	25 Questions	Q5, Q9, Q11, Q13, Q15, Q17, Q19, Q21, Q24, Q26, Q30, Q39, Q44, Q48, Q51, Q52, Q57, Q66, Q72, Q77, Q82, Q87, Q88, Q96, Q100
<b>Domain 4</b>	Virtualization and Cloud (11%)	11 Questions	Q12, Q16, Q22, Q32, Q35, Q49, Q59, Q62, Q68, Q75, Q79
<b>Domain 5</b>	Hardware and Network Troubleshooting (28%)	28 Questions	Q18, Q27, Q31, Q36, Q40, Q41, Q42, Q45, Q46, Q50, Q56, Q58, Q63, Q67, Q71, Q76, Q80, Q84, Q85, Q86, Q89, Q90, Q91, Q97, Q98, Q99

## Remember — you don't need to be perfect to pass!

The A+ Core 1 passing score is approximately **75%**. That means you can miss **up to 22 out of 90 questions** and still succeed.

Don't panic over a few tough or unfamiliar questions. Stay calm, focus on what you know, and work through the exam methodically. Your preparation will carry you through.

# Questions 1–10

**Q1.**

Which of the following memory types is commonly used in laptops?

- A) DIMM
  - B) DDR5
  - C) ECC RAM
  - D) SO-DIMM
- 

**Q2.**

Which connector is typically used for analog video signals on older monitors?

- A) HDMI
  - B) DisplayPort
  - C) DVI
  - D) VGA
- 

**Q3.**

Which tool would BEST help identify a specific cable among dozens in a server rack?

- A) Loopback plug
  - B) Tone generator and probe
  - C) Cable crimper
  - D) Cable tester
- 

**Q4.**

What does a 169.254.x.x IP address indicate?

- A) Valid DHCP address
  - B) Loopback interface
  - C) APIPA address due to DHCP failure
  - D) Static private IP
- 

**Q5.**

A laser printer is producing faded images and toner smears easily. Which component is MOST likely failing?

- A) Drum
- B) Toner cartridge
- C) Fuser
- D) Transfer belt

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**Q6.**

Which feature allows a smartphone to be used as a Wi-Fi access point for other devices?

- A) NFC
  - B) Tethering
  - C) Airplane mode
  - D) Bluetooth pairing
- 

**Q7.**

Which device forwards packets based on IP address and typically connects different networks?

- A) Switch
  - B) Router
  - C) Access point
  - D) Hub
- 

**Q8.**

A technician needs to replace a laptop display with a modern panel. What type of backlight should they expect?

- A) Plasma
  - B) CCFL
  - C) OLED
  - D) LED
- 

**Q9.**

Which of the following would MOST likely be found in a virtual machine configuration?

- A) RAID level
  - B) ECC type
  - C) vCPU
  - D) DHCP scope
- 

**Q10.**

A user reports their screen is too dim, even at full brightness. What is the MOST likely issue on an older laptop with CCFL backlight?

- A) GPU failure
- B) Display resolution mismatch

- C) Bad inverter
  - D) BIOS misconfiguration
- 

## Answers 1–10

### A1.

Answer: D) SO-DIMM

Explanation: Small Outline DIMMs are used in laptops and compact systems. They are physically smaller than standard DIMMs.

### A2.

Answer: D) VGA

Explanation: VGA (Video Graphics Array) is an analog video connector, widely used before HDMI and DisplayPort became standard.

### A3.

Answer: B) Tone generator and probe

Explanation: This tool sends a tone through a wire, which can be traced using a probe to identify specific cables in a bundle.

### A4.

Answer: C) APIPA address due to DHCP failure

Explanation: APIPA (Automatic Private IP Addressing) assigns a 169.254.x.x IP when the device cannot reach a DHCP server.

### A5.

Answer: C) Fuser

Explanation: The fuser melts toner onto paper. If toner smears and prints are faint, the fuser may not be heating properly.

### A6.

Answer: B) Tethering

Explanation: Tethering allows a mobile device to share its internet connection via USB, Wi-Fi, or Bluetooth.

### A7.

Answer: B) Router

Explanation: Routers forward packets using IP addresses and connect separate networks like a LAN to the internet.

### A8.

Answer: D) LED

Explanation: Modern laptop screens use LED backlighting. CCFL was used in older displays and required an inverter.

**A9.**

Answer: C) vCPU

Explanation: Virtual machines allocate virtual CPUs (vCPUs) to simulate physical CPU cores for the guest OS.

**A10.**

Answer: C) Bad inverter

Explanation: Older CCFL-backlit screens use inverters to power the backlight. A failing inverter results in dim displays.

# Questions 11–20

**Q11.**

Which of the following tools is required to terminate wires into a 110 block or keystone jack?

- A) Crimper
  - B) Loopback plug
  - C) Punchdown tool
  - D) Multimeter
- 

**Q12.**

Which type of display panel offers the best color accuracy and viewing angles?

- A) TN
  - B) OLED
  - C) VA
  - D) IPS
- 

**Q13.**

Which protocol and port are used by secure websites to encrypt HTTP traffic?

- A) SSH, 22
  - B) HTTPS, 443
  - C) SFTP, 22
  - D) HTTP, 80
- 

**Q14.**

A desktop PC's power supply fails. Which voltage rail is MOST likely to power the CPU?

- A) +5V
  - B) +3.3V
  - C) +12V
  - D) -12V
- 

**Q15.**

Which of the following wireless standards supports the 6 GHz band?

- A) 802.11n
- B) 802.11ac
- C) 802.11ax (Wi-Fi 6E)
- D) 802.11g

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**Q16.**

A technician is configuring a RAID 1 array. What is the PRIMARY purpose of this setup?

- A) Speed
  - B) High capacity
  - C) Fault tolerance
  - D) Encryption
- 

**Q17.**

Which storage device type has no moving parts and provides the fastest read/write speeds?

- A) HDD
  - B) Hybrid drive
  - C) SATA SSD
  - D) NVMe SSD
- 

**Q18.**

Which of the following services automatically assigns IP addresses and network configuration to clients?

- A) DNS
  - B) NAT
  - C) DHCP
  - D) LDAP
- 

**Q19.**

Which of the following connectors would MOST likely be used to connect an internal hard drive?

- A) eSATA
  - B) SATA
  - C) USB
  - D) Molex
- 

**Q20.**

A technician needs to install a printer in a remote office and allow multiple users to access it via the network. What is the BEST method?

- A) USB direct to one user's PC
- B) Share the printer via Bluetooth



- C) Connect the printer via Ethernet and assign it a static IP
  - D) Use a parallel-to-USB adapter
- 

## Answers 11–20

### A11.

Answer: C) Punchdown tool

Explanation: A punchdown tool is used to terminate twisted-pair cabling into keystone jacks, patch panels, and 110 blocks.

### A12.

Answer: D) IPS

Explanation: In-Plane Switching (IPS) displays offer the best color reproduction and wide viewing angles compared to TN and VA.

### A13.

Answer: B) HTTPS, 443

Explanation: HTTPS encrypts web traffic using SSL/TLS and operates over TCP port 443.

### A14.

Answer: C) +12V

Explanation: The +12V rail powers high-draw components like CPUs and GPUs.

### A15.

Answer: C) 802.11ax (Wi-Fi 6E)

Explanation: Wi-Fi 6E adds support for the 6 GHz frequency band, increasing bandwidth and reducing interference.

### A16.

Answer: C) Fault tolerance

Explanation: RAID 1 mirrors data between two drives, providing redundancy in case one drive fails.

### A17.

Answer: D) NVMe SSD

Explanation: NVMe SSDs use PCIe lanes for ultra-fast storage performance with no moving parts.

### A18.

Answer: C) DHCP

Explanation: Dynamic Host Configuration Protocol (DHCP) assigns IP addresses, subnet masks, default gateways, and DNS info.

**A19.**

Answer: B) SATA

Explanation: SATA connectors are used for connecting internal hard drives and SSDs to the motherboard.

**A20.**

Answer: C) Connect the printer via Ethernet and assign it a static IP

Explanation: Network-connected printers should be assigned a static IP to ensure consistent access for multiple users.

## Questions 21–30

### Q21.

Which component is used to temporarily hold data for active processes and applications?

- A) SSD
  - B) CMOS
  - C) RAM
  - D) CPU
- 

### Q22.

Which of the following would MOST likely be found in a laser printer maintenance kit?

- A) Toner cartridge
  - B) Paper tray
  - C) Fuser assembly
  - D) Ink cartridge
- 

### Q23.

A technician is replacing a failed wireless card in a laptop. Which connector type is MOST likely used for antenna leads?

- A) SATA
  - B) RG-6
  - C) U.FL
  - D) RJ-45
- 

### Q24.

Which connector is most commonly used to connect a desktop power supply to a motherboard?

- A) 8-pin PCIe
  - B) 24-pin ATX
  - C) SATA power
  - D) Molex
- 

### Q25.

What type of address is **fe80::1**?

- A) Loopback IPv4
- B) Public IPv6

- C) Link-local IPv6
  - D) APIPA IPv4
- 

**Q26.**

Which expansion slot type is used for modern graphics cards?

- A) AGP
  - B) PCI
  - C) PCIe x16
  - D) ISA
- 

**Q27.**

A user wants to upgrade their desktop to store large media files with redundancy. Which RAID configuration offers maximum usable space while protecting from a single drive failure?

- A) RAID 0
  - B) RAID 1
  - C) RAID 5
  - D) RAID 10
- 

**Q28.**

A technician is troubleshooting a display issue and sees a faint image only when shining a flashlight at the screen. What is the MOST likely cause?

- A) Failing video card
  - B) Burned-out backlight
  - C) Incorrect refresh rate
  - D) Corrupt driver
- 

**Q29.**

Which of the following methods BEST describes how a user can secure a smartphone from unauthorized access?

- A) Enabling airplane mode
  - B) Disabling GPS
  - C) Setting a screen lock password or biometric
  - D) Syncing with cloud storage
- 

**Q30.**

What is the default subnet mask for a Class C IPv4 address?

- A) 255.0.0.0
  - B) 255.255.0.0
  - C) 255.255.255.0
  - D) 255.255.255.255
- 

## Answers 21–30

### A21.

Answer: C) RAM

Explanation: Random Access Memory (RAM) temporarily stores data for active programs and processes while the system is running.

### A22.

Answer: C) Fuser assembly

Explanation: A fuser is a common part in a laser printer maintenance kit. It melts toner onto the paper using heat and pressure.

### A23.

Answer: C) U.FL

Explanation: U.FL connectors are miniature coaxial connectors used for attaching antenna leads in laptops and wireless cards.

### A24.

Answer: B) 24-pin ATX

Explanation: The 24-pin ATX connector is the main power connector from the PSU to the motherboard.

### A25.

Answer: C) Link-local IPv6

Explanation: IPv6 addresses starting with **fe80::/10** are link-local and used for communication within the same subnet.

### A26.

Answer: C) PCIe x16

Explanation: PCI Express x16 is the current standard for installing graphics cards on a motherboard.

### A27.

Answer: C) RAID 5

Explanation: RAID 5 offers fault tolerance and uses one disk's worth of space for parity, maximizing usable capacity.

**A28.**

Answer: B) Burned-out backlight

Explanation: A dim or dark screen with a faint image is typically caused by a failed backlight, not the GPU.

**A29.**

Answer: C) Setting a screen lock password or biometric

Explanation: Screen lock mechanisms like PINs or biometrics (fingerprint/face) are essential to prevent unauthorized smartphone access.

**A30.**

Answer: C) 255.255.255.0

Explanation: Class C IPv4 addresses (192.0.0.0 to 223.255.255.255) use a default subnet mask of 255.255.255.0.

# Questions 31–40

**Q31.**

Which of the following IP address ranges is reserved for private networks?

- A) 8.8.8.0/24
  - B) 192.168.0.0/16
  - C) 172.0.0.0/8
  - D) 224.0.0.0/4
- 

**Q32.**

What type of cable is used to connect a cable modem to the ISP's service?

- A) CAT6
  - B) Fiber
  - C) RG-6 coaxial
  - D) STP
- 

**Q33.**

Which command would you use in Windows to view the current IP configuration?

- A) ping
  - B) ipconfig
  - C) nslookup
  - D) tracert
- 

**Q34.**

Which technology allows a printer to wait until the user is present before printing confidential documents?

- A) Duplexing
  - B) Secure Print
  - C) Spooling
  - D) Print sharing
- 

**Q35.**

Which of the following storage types uses magnetic platters and read/write heads?

- A) SSD
- B) NVMe
- C) HDD
- D) Flash drive

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**Q36.**

Which tool would a technician use to safely clean toner spills inside a laser printer?

- A) Air duster
  - B) Toner vacuum
  - C) Paintbrush
  - D) Standard vacuum
- 

**Q37.**

What is the main advantage of using a PoE switch with IP cameras?

- A) Improved frame rate
  - B) Higher resolution
  - C) Eliminates the need for power outlets
  - D) Enables cloud backup
- 

**Q38.**

Which of the following best describes the function of thermal paste?

- A) Bonds CPU to motherboard
  - B) Cleans electrical contacts
  - C) Protects CPU from static discharge
  - D) Improves heat transfer from CPU to heatsink
- 

**Q39.**

A laptop user reports that the built-in keyboard types random characters. What is the MOST likely cause?

- A) Failed BIOS update
  - B) Faulty keyboard matrix
  - C) Incorrect input language
  - D) Drive corruption
- 

**Q40.**

What type of address is 127.0.0.1?

- A) Private IP
  - B) Loopback address
  - C) Broadcast address
  - D) Default gateway
-



# Answers 31–40

**A31.**

Answer: B) 192.168.0.0/16

Explanation: 192.168.0.0–192.168.255.255 is a private IP address range commonly used in home and office networks.

**A32.**

Answer: C) RG-6 coaxial

Explanation: RG-6 coaxial cable is used to connect cable modems to the ISP via coax outlets.

**A33.**

Answer: B) ipconfig

Explanation: ipconfig is used in Windows to display the IP address, subnet mask, and gateway configuration.

**A34.**

Answer: B) Secure Print

Explanation: Secure Print holds print jobs until a user enters a PIN or badge ID at the printer to release the job.

**A35.**

Answer: C) HDD

Explanation: Hard Disk Drives (HDDs) use magnetic platters and moving heads to read/write data.

**A36.**

Answer: B) Toner vacuum

Explanation: A toner vacuum is designed to safely clean fine toner particles without spreading them or damaging components.

**A37.**

Answer: C) Eliminates the need for power outlets

Explanation: PoE (Power over Ethernet) allows network cables to deliver power to devices like IP cameras, eliminating the need for separate power cables.

**A38.**

Answer: D) Improves heat transfer from CPU to heatsink

Explanation: Thermal paste fills microscopic gaps between the CPU and heatsink, improving heat transfer.

**A39.**

Answer: C) Incorrect input language

Explanation: An incorrect keyboard layout (e.g., switching from QWERTY to AZERTY) can cause unexpected characters to appear.

**A40.**

Answer: B) Loopback address

Explanation: 127.0.0.1 is the loopback address in IPv4 used to test internal network functionality on the host.

# Questions 41–50

**Q41.**

Which of the following is the standard voltage for most wall outlets in North America?

- A) 110–120 VAC
  - B) 220–240 VAC
  - C) 48 VDC
  - D) 5 VDC
- 

**Q42.**

Which connector is used to provide additional power to high-performance graphics cards?

- A) Molex
  - B) 24-pin ATX
  - C) 6-pin PCIe
  - D) SATA power
- 

**Q43.**

A user needs to connect a printer with a USB Type-B port to a laptop. Which cable is needed?

- A) USB-C to USB-C
  - B) USB-A to USB-B
  - C) USB-A to Micro-USB
  - D) USB-A to Mini-USB
- 

**Q44.**

Which of the following types of memory is non-volatile and retains data when power is off?

- A) RAM
  - B) Cache
  - C) ROM
  - D) L1
- 

**Q45.**

Which of the following wireless technologies is typically used for short-range connections between mobile devices?

- A) LTE

- B) Bluetooth
  - C) NFC
  - D) Wi-Fi
- 

**Q46.**

What is the function of the BIOS/UEFI setup utility?

- A) Updates printer drivers
  - B) Launches the operating system
  - C) Manages system firmware and settings
  - D) Formats hard drives
- 

**Q47.**

A user is complaining that their Wi-Fi signal drops when they microwave food. Which frequency is MOST affected?

- A) 900 MHz
  - B) 2.4 GHz
  - C) 3.6 GHz
  - D) 5 GHz
- 

**Q48.**

Which of the following interfaces supports both video and audio signals in a single cable?

- A) DVI-D
  - B) VGA
  - C) HDMI
  - D) DB-9
- 

**Q49.**

Which file format is typically used for virtual hard disks in a Windows Hyper-V environment?

- A) ISO
  - B) VHD
  - C) IMG
  - D) BIN
- 

**Q50.**

A user reports their laser printer prints streaks down the page. What should the

technician check FIRST?

- A) Paper size setting
  - B) Print queue
  - C) Toner cartridge or drum
  - D) USB cable
- 

## Answers 41–50

### A41.

Answer: A) 110–120 VAC

Explanation: Standard wall outlets in North America provide 110–120 volts of alternating current (VAC).

### A42.

Answer: C) 6-pin PCIe

Explanation: 6-pin and 8-pin PCIe connectors supply extra power to high-performance GPUs beyond what the PCIe slot provides.

### A43.

Answer: B) USB-A to USB-B

Explanation: Printers commonly use a USB-B port for connection. USB-A to USB-B cables are standard for this setup.

### A44.

Answer: C) ROM

Explanation: Read-Only Memory (ROM) is non-volatile and retains its contents even when the system is powered off.

### A45.

Answer: B) Bluetooth

Explanation: Bluetooth is designed for low-power, short-range (typically up to 10 meters) wireless communication between devices.

### A46.

Answer: C) Manages system firmware and settings

Explanation: BIOS/UEFI allows configuration of system hardware, boot order, security settings, and hardware diagnostics.

### A47.

Answer: B) 2.4 GHz

Explanation: Microwaves operate around 2.45 GHz, which interferes with Wi-Fi signals in the 2.4 GHz band.

**A48.**

Answer: C) HDMI

Explanation: High-Definition Multimedia Interface (HDMI) carries both high-definition video and digital audio in one cable.

**A49.**

Answer: B) VHD

Explanation: VHD (Virtual Hard Disk) is the file format used by Microsoft Hyper-V for virtual machine disks.

**A50.**

Answer: C) Toner cartridge or drum

Explanation: Streaks on laser-printed pages often indicate a problem with the toner cartridge or the imaging drum.

# Questions 51–60

**Q51.**

Which type of memory is built directly into the CPU and is the fastest?

- A) RAM
  - B) L1 cache
  - C) ROM
  - D) SSD
- 

**Q52.**

Which of the following components would MOST likely use a heatsink or active cooling?

- A) RAM
  - B) Hard drive
  - C) CPU
  - D) Optical drive
- 

**Q53.**

What does the “Auto-MDI/MDI-X” feature on switches eliminate the need for?

- A) Managed switch software
  - B) Loopback adapters
  - C) Crossover cables
  - D) Firmware updates
- 

**Q54.**

Which of the following connector types is typically used for fiber-optic cables?

- A) RJ-45
  - B) LC
  - C) BNC
  - D) USB
- 

**Q55.**

Which device connects multiple network segments and manages traffic between them based on IP addresses?

- A) Switch
- B) Hub
- C) Repeater
- D) Router

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**Q56.**

A technician needs to retrieve recently deleted files from a user's SSD. Which tool should they try FIRST?

- A) Disk defragmenter
  - B) File recovery software
  - C) Disk cleanup
  - D) Format utility
- 

**Q57.**

Which of the following interfaces provides the FASTEST data transfer rate for external drives?

- A) USB 2.0
  - B) SATA
  - C) Thunderbolt 3
  - D) FireWire 400
- 

**Q58.**

What is the purpose of a POST card?

- A) Encrypt BIOS passwords
  - B) Update firmware
  - C) Test startup diagnostics
  - D) Monitor CPU temperatures
- 

**Q59.**

Which of the following terms describes a virtualized computing environment hosted by a provider over the internet?

- A) Local VM
  - B) SaaS
  - C) Cloud computing
  - D) UEFI
- 

**Q60.**

What is the typical function of a riser card in a desktop system?

- A) Convert HDMI to VGA
- B) Allow horizontal installation of expansion cards
- C) Power external USB hubs
- D) Split PCIe slots into multiples



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## Answers 51–60

**A51.**

Answer: B) L1 cache

Explanation: L1 cache is the smallest and fastest memory, located on the CPU itself for storing frequently used data and instructions.

**A52.**

Answer: C) CPU

Explanation: CPUs generate significant heat and require heatsinks and/or fans to dissipate heat and maintain performance.

**A53.**

Answer: C) Crossover cables

Explanation: Auto-MDI/MDI-X automatically adjusts port signaling, allowing straight-through cables to be used instead of crossover cables.

**A54.**

Answer: B) LC

Explanation: LC (Lucent Connector) is a common small form-factor connector used with fiber-optic cabling.

**A55.**

Answer: D) Router

Explanation: Routers operate at Layer 3 and direct traffic between different IP networks.

**A56.**

Answer: B) File recovery software

Explanation: File recovery software can attempt to recover deleted files, especially if they haven't been overwritten yet.

**A57.**

Answer: C) Thunderbolt 3

Explanation: Thunderbolt 3 can transfer data at speeds up to 40 Gbps, making it the fastest option among those listed.

**A58.**

Answer: C) Test startup diagnostics

Explanation: A POST (Power-On Self-Test) card helps identify hardware faults during boot if the system does not POST normally.

**A59.**

Answer: C) Cloud computing

Explanation: Cloud computing provides virtualized resources like servers or apps over the internet.

**A60.**

Answer: B) Allow horizontal installation of expansion cards

Explanation: A riser card lets expansion cards be installed parallel to the motherboard, useful in low-profile or rackmount systems.

# Questions 61–70

**Q61.**

Which of the following mobile device features uses the screen itself to sense touch input?

- A) Capacitive digitizer
  - B) NFC antenna
  - C) Inverter
  - D) SIM card
- 

**Q62.**

Which file system is MOST appropriate for formatting a USB flash drive that needs to work on both Windows and macOS?

- A) NTFS
  - B) FAT32
  - C) ext4
  - D) APFS
- 

**Q63.**

A technician connects a laptop to an external monitor, but nothing appears. What key combination should be used to switch display modes?

- A) Ctrl + Alt + Del
  - B) Fn + Display (e.g., F4, F5)
  - C) Windows + Tab
  - D) Alt + Print Screen
- 

**Q64.**

What is the purpose of an IP address reservation in DHCP?

- A) Blocks an IP from being used
  - B) Assigns the same IP to a specific MAC address
  - C) Prevents IP conflict with static devices
  - D) Forces clients to use dynamic addressing
- 

**Q65.**

A user cannot access websites by name, but can by IP. Which service is MOST likely the issue?

- A) DHCP

- B) VPN
  - C) DNS
  - D) NAT
- 

**Q66.**

Which device allows users to share files across a network and often includes built-in backup or media features?

- A) NAS
  - B) Router
  - C) Switch
  - D) Proxy server
- 

**Q67.**

Which of the following printers uses pins to strike a ribbon and impact paper?

- A) Thermal
  - B) Inkjet
  - C) Laser
  - D) Dot matrix
- 

**Q68.**

What is the purpose of a TPM chip?

- A) Boost GPU performance
  - B) Improve wireless signal
  - C) Secure encryption keys and system authentication
  - D) Speed up disk access
- 

**Q69.**

A user wants to mirror their smartphone screen to a wireless display. Which technology is MOST likely used?

- A) Bluetooth
  - B) Infrared
  - C) Miracast
  - D) Wi-Fi tethering
- 

**Q70.**

Which of the following BEST describes a virtual print option?

- A) Redirecting print jobs to a cloud queue

- B) Sending output to a PDF or XPS file
  - C) Printing from a VM to a local printer
  - D) Spooling print jobs on a print server
- 

## Answers 61–70

### A61.

Answer: A) Capacitive digitizer

Explanation: A capacitive digitizer senses touch using the electrical properties of the human body; it is part of the touchscreen layer.

### A62.

Answer: B) FAT32

Explanation: FAT32 is widely compatible across OS platforms, including Windows and macOS, making it ideal for portable storage.

### A63.

Answer: B) Fn + Display (e.g., F4, F5)

Explanation: Most laptops use a function key (Fn) plus a labeled display key to toggle between internal and external displays.

### A64.

Answer: B) Assigns the same IP to a specific MAC address

Explanation: DHCP reservations ensure a specific device always receives the same IP address by associating it with the device's MAC address.

### A65.

Answer: C) DNS

Explanation: If a device can connect to IPs but not domain names, the issue is with Domain Name System (DNS) resolution.

### A66.

Answer: A) NAS

Explanation: Network Attached Storage (NAS) devices allow multiple users to store and access files over a network and often include backup/media streaming features.

### A67.

Answer: D) Dot matrix

Explanation: Dot matrix printers use mechanical pins to impact an ink ribbon and form characters, ideal for multipart forms.

### A68.

Answer: C) Secure encryption keys and system authentication

Explanation: Trusted Platform Module (TPM) is a security chip used to store encryption keys and support secure boot and BitLocker.

**A69.**

Answer: C) Miracast

Explanation: Miracast allows wireless screen mirroring from a smartphone or PC to a display without needing cables.

**A70.**

Answer: B) Sending output to a PDF or XPS file

Explanation: Virtual printing refers to printing to file formats like PDF or XPS instead of physical paper.

# Questions 71–80

**Q71.**

Which of the following components typically stores BIOS configuration settings?

- A) DRAM
  - B) ROM
  - C) CMOS
  - D) EEPROM
- 

**Q72.**

A technician is troubleshooting a PC that randomly powers off during high CPU usage. Which is the MOST likely cause?

- A) Corrupt BIOS
  - B) Faulty hard drive
  - C) Overheating
  - D) Incompatible RAM
- 

**Q73.**

Which type of network address allows multiple devices to share a single public IP address?

- A) Static IP
  - B) MAC address
  - C) NAT
  - D) IPv6 address
- 

**Q74.**

Which type of connector is commonly used with coaxial cable in residential cable internet setups?

- A) LC
  - B) F-type
  - C) SC
  - D) RJ-11
- 

**Q75.**

What is the purpose of the "print spooler" in Windows?

- A) Encrypt print jobs before sending
- B) Manage print queues and send jobs to the printer

- C) Format printer drivers
  - D) Print to remote locations only
- 

**Q76.**

Which type of display is most susceptible to image burn-in over time?

- A) LCD
  - B) LED
  - C) OLED
  - D) IPS
- 

**Q77.**

Which type of wireless encryption should be AVOIDED due to weak security?

- A) WPA3
  - B) WPA2
  - C) WEP
  - D) AES
- 

**Q78.**

A user connects to a Wi-Fi network but sees “No Internet Access.” What is the FIRST setting to verify?

- A) MAC address
  - B) DHCP lease time
  - C) Default gateway
  - D) DNS cache
- 

**Q79.**

Which RAID type offers striping without any fault tolerance?

- A) RAID 0
  - B) RAID 1
  - C) RAID 5
  - D) RAID 10
- 

**Q80.**

Which mobile feature enables tap-to-pay functionality at a point-of-sale terminal?

- A) Bluetooth
- B) Wi-Fi Direct



- C) NFC
  - D) AirDrop
- 

## Answers 71–80

### A71.

Answer: C) CMOS

Explanation: The Complementary Metal-Oxide Semiconductor (CMOS) chip stores BIOS configuration settings such as date/time and boot order.

### A72.

Answer: C) Overheating

Explanation: Random shutdowns during high usage often indicate thermal issues due to poor cooling or a failing CPU fan.

### A73.

Answer: C) NAT

Explanation: Network Address Translation (NAT) allows multiple devices on a LAN to access the internet using one public IP.

### A74.

Answer: B) F-type

Explanation: F-type connectors are used with RG-6 coaxial cables for cable modems and TV services.

### A75.

Answer: B) Manage print queues and send jobs to the printer

Explanation: The print spooler is a background service that queues and manages print jobs in Windows.

### A76.

Answer: C) OLED

Explanation: OLED displays can suffer from permanent image retention or burn-in when static images are displayed for long periods.

### A77.

Answer: C) WEP

Explanation: Wired Equivalent Privacy (WEP) is outdated and vulnerable; it should never be used on modern networks.

### A78.

Answer: C) Default gateway

Explanation: If a device connects to Wi-Fi but has no internet, the most likely culprit is a missing or incorrect default gateway.

**A79.**

Answer: A) RAID 0

Explanation: RAID 0 stripes data across multiple disks for speed but provides no fault tolerance. A single disk failure causes total data loss.

**A80.**

Answer: C) NFC

Explanation: Near Field Communication (NFC) enables tap-to-pay functionality by securely transmitting data over very short distances.

# Questions 81–90

**Q81.**

Which of the following devices BEST protects against power surges?

- A) UPS
  - B) Power strip
  - C) Line conditioner
  - D) Surge protector
- 

**Q82.**

A technician is installing a high-end graphics card that requires more power than the motherboard provides. What connector is needed?

- A) 4-pin Molex
  - B) 6-pin PCIe
  - C) 20-pin ATX
  - D) SATA power
- 

**Q83.**

Which mobile OS feature allows data and application settings to be preserved and restored automatically?

- A) Factory reset
  - B) Remote wipe
  - C) Cloud synchronization
  - D) Wi-Fi hotspot
- 

**Q84.**

What is the default behavior of a printer spooler when multiple print jobs are received?

- A) Sends all jobs in parallel
  - B) Clears queue after each job
  - C) Queues jobs in order of arrival
  - D) Stores all jobs as PDFs
- 

**Q85.**

Which of the following would MOST likely be used to test the integrity of Ethernet cabling?

- A) Loopback plug
- B) Cable tester

- C) Toner probe
  - D) POST card
- 

**Q86.**

What is the purpose of a keystone jack in networking?

- A) Connects coaxial to fiber
  - B) Terminates twisted-pair cabling at a wall plate
  - C) Creates a crossover Ethernet cable
  - D) Converts RJ-45 to USB
- 

**Q87.**

Which type of SSD interface provides the HIGHEST performance?

- A) eSATA
  - B) SATA
  - C) USB
  - D) M.2 NVMe
- 

**Q88.**

What is the role of a power inverter in a laptop with a CCFL display?

- A) Converts AC to DC for charging
  - B) Powers the keyboard backlight
  - C) Steps up voltage to run the backlight
  - D) Powers the fan and cooling system
- 

**Q89.**

A user reports distorted colors on their LCD monitor. What is the FIRST step a technician should take?

- A) Replace the monitor
  - B) Update the BIOS
  - C) Check and reseal the video cable
  - D) Install a new GPU
- 

**Q90.**

Which protocol is used to securely access a remote computer's CLI over a network?

- A) Telnet
- B) FTP

- C) SSH
  - D) RDP
- 

## Answers 81–90

### A81.

Answer: D) Surge protector

Explanation: A surge protector defends devices from voltage spikes caused by lightning or power fluctuations.

### A82.

Answer: B) 6-pin PCIe

Explanation: High-performance GPUs require dedicated PCIe power connectors (6-pin or 8-pin) for additional power beyond the motherboard.

### A83.

Answer: C) Cloud synchronization

Explanation: Cloud sync automatically backs up mobile data and app settings to services like iCloud or Google Drive.

### A84.

Answer: C) Queues jobs in order of arrival

Explanation: The print spooler stores jobs in a queue, processing them in order unless priorities are set manually.

### A85.

Answer: B) Cable tester

Explanation: A cable tester checks for continuity, wiring order, and possible faults in Ethernet cables.

### A86.

Answer: B) Terminates twisted-pair cabling at a wall plate

Explanation: A keystone jack is mounted in wall plates and patch panels, providing a modular and clean termination point for network cabling.

### A87.

Answer: D) M.2 NVMe

Explanation: M.2 NVMe SSDs use PCIe lanes and offer significantly faster performance than SATA- or USB-based SSDs.

### A88.

Answer: C) Steps up voltage to run the backlight

Explanation: Inverters convert low-voltage DC to high-voltage AC needed for older CCFL laptop backlights.

**A89.**

Answer: C) Check and reseal the video cable

Explanation: Video distortion is often caused by a loose or poorly connected video cable. Checking the cable is a quick and logical first step.

**A90.**

Answer: C) SSH

Explanation: Secure Shell (SSH) provides encrypted remote command-line access over a network, commonly used for managing Linux systems.

# Questions 91–100

**Q91.**

Which of the following cable types is LEAST susceptible to electromagnetic interference (EMI)?

- A) UTP
  - B) STP
  - C) Coaxial
  - D) Fiber optic
- 

**Q92.**

A laptop battery is swelling and pushing against the touchpad. What should the technician do FIRST?

- A) Drain the battery completely
  - B) Replace the touchpad
  - C) Remove and properly dispose of the battery
  - D) Reinstall the drivers
- 

**Q93.**

Which of the following features allows a technician to control a mobile device remotely for support purposes?

- A) Remote wipe
  - B) MDM
  - C) NFC
  - D) Airplane mode
- 

**Q94.**

Which of the following is a valid APIPA address?

- A) 10.0.0.15
  - B) 127.0.0.1
  - C) 169.254.1.1
  - D) 192.168.100.1
- 

**Q95.**

Which connector is used for high-definition digital video and audio over a single cable?

- A) DVI
- B) VGA

- C) DisplayPort
  - D) HDMI
- 

**Q96.**

Which of the following expansion cards would MOST likely provide additional USB ports to a desktop PC?

- A) NIC
  - B) Video card
  - C) USB controller
  - D) Sound card
- 

**Q97.**

A technician needs to determine if a PSU is supplying correct voltages without using the computer. What tool should be used?

- A) Cable tester
  - B) Loopback plug
  - C) POST card
  - D) Multimeter
- 

**Q98.**

What is the MOST secure way to dispose of an old hard drive?

- A) Quick format
  - B) Delete all files
  - C) Degauss or physically destroy it
  - D) Move it to another PC
- 

**Q99.**

Which of the following memory types is primarily used for system startup firmware and is non-volatile?

- A) SRAM
  - B) DRAM
  - C) ROM
  - D) SDRAM
- 

**Q100.**

A technician suspects a PC has a faulty DIMM. What is the BEST first step in troubleshooting?



- A) Flash the BIOS
  - B) Swap the DIMM with a known-good one
  - C) Format the hard drive
  - D) Remove the CMOS battery
- 

## Answers 91–100

### A91.

Answer: D) Fiber optic

Explanation: Fiber optic cables use light instead of electrical signals, making them immune to EMI and ideal for high-interference environments.

### A92.

Answer: C) Remove and properly dispose of the battery

Explanation: A swollen battery poses a safety risk and must be removed and recycled according to proper battery disposal procedures.

### A93.

Answer: B) MDM

Explanation: Mobile Device Management (MDM) solutions allow remote control, monitoring, configuration, and wiping of mobile devices.

### A94.

Answer: C) 169.254.1.1

Explanation: 169.254.x.x is the APIPA (Automatic Private IP Addressing) range used when a device cannot contact a DHCP server.

### A95.

Answer: D) HDMI

Explanation: High-Definition Multimedia Interface (HDMI) supports digital video and audio over a single cable.

### A96.

Answer: C) USB controller

Explanation: A USB controller expansion card adds more USB ports to a desktop system.

### A97.

Answer: D) Multimeter

Explanation: A multimeter can measure voltage levels at power supply connectors to verify output without powering on the system.

**A98.**

Answer: C) Degauss or physically destroy it

Explanation: For secure disposal, physically destroying the drive or using a degausser ensures data cannot be recovered.

**A99.**

Answer: C) ROM

Explanation: Read-Only Memory (ROM) stores firmware such as BIOS/UEFI and retains contents without power.

**A100.**

Answer: B) Swap the DIMM with a known-good one

Explanation: Replacing the suspect RAM module with a working one is a direct and reliable method to test for memory failure.