

Computer Fundamentals Quiz: 40 Multiple-Choice Questions

1. What is the primary function of System Software?
 - A. To perform user-specific tasks like word processing or gaming.
 - B. To manage and control the computer's hardware and provide a platform for application software.
 - C. To connect the computer to the internet.
 - D. To store the user's personal files.

Answer: B

2. Which of the following components is primarily responsible for rendering 3D graphics and complex visual data?
 - A. CPU
 - B. RAM
 - C. GPU
 - D. PSU

Answer: C

3. Cache Memory is best described as:
 - A. Permanent storage for the operating system.
 - B. A small, extremely fast memory located near the CPU.
 - C. Volatile memory used to run open applications.
 - D. Storage for BIOS settings.

Answer: B

4. Which type of CPU socket uses pins on the processor that fit into holes on the motherboard?

- A. LGA (Land Grid Array)
- B. PGA (Pin Grid Array)
- C. BGA (Ball Grid Array)
- D. ZIF (Zero Insertion Force)

Answer: B

5. What do the letters M.2 refer to in the context of storage and motherboard slots?

- A. A type of large Hard Disk Drive connector.
- B. A small form factor for connecting SSDs directly to the motherboard.
- C. A type of older optical drive interface.
- D. A new version of the SATA connector.

Answer: B

6. Which component is considered the central communication hub that connects all of the computer's internal components?

- A. CPU
- B. RAM
- C. Motherboard
- D. Hard Drive

Answer: C

7. The Chipset on a motherboard is separated into two main components known as:

- A. Northbridge and Southbridge (or their modern equivalents).
- B. CPU and GPU.
- C. BIOS and CMOS.
- D. RAM and Cache.

Answer: A

8. What is the key purpose of Secondary Storage devices like HDDs and SSDs?

- A. To temporarily store data for running applications.
- B. To execute program instructions.
- C. To store data and programs permanently.
- D. To connect the computer to a network.

Answer: C

9. Which of the following is an example of an Input Device?

- A. Monitor
- B. Printer
- C. Speakers
- D. Webcam

Answer: D

10. What is a key feature of an Ergonomic Keyboard?

- A. It uses mechanical switches.
- B. It has a flexible, rollable design.
- C. It is designed for comfortable typing and to minimize strain.
- D. It has a separate numeric keypad.

Answer: C

11. What is the standard measurement used to define the sensitivity and speed of a mouse?

- A. PPI (Pixels Per Inch)
- B. DPI (Dots Per Inch)
- C. HZ (Hertz)
- D. RPM (Revolutions Per Minute)

Answer: B

12. The firmware standard designed to replace the older BIOS is known as:

- A. CMOS
- B. UEFI
- C. RAM
- D. LGA

Answer: B

13. What type of software is an internet browser like Google Chrome or Mozilla Firefox?

- A. System Software
- B. Utility Software
- C. Application Software
- D. Firmware

Answer: C

14. The term "volatile" when describing RAM means:

- A. It is very large in size.
- B. It is very fast to access.
- C. It retains data even when power is off.
- D. It loses all stored data when power is turned off.

Answer: D

15. What are the lanes in a PCIe slot primarily used for?

- A. Providing power to the connected device.
- B. Defining the physical length of the slot.
- C. The pathways used for data transfer to and from the connected device.
- D. Securing the card in place.

Answer: C

16. Which type of scanner is best suited for digitizing large volumes of individual paper documents quickly?

- A. Flatbed Scanner
- B. Drum Scanner
- C. Sheet-fed Scanner
- D. Handheld Scanner

Answer: C

17. Which Output Device uses charged toner and a laser to produce high-quality, high-speed text documents?

- A. Inkjet Printer
- B. Dot-matrix Printer
- C. Laser Printer
- D. Thermal Printer

Answer: C

18. What is the function of the CMOS battery?

- A. To power the motherboard when the PSU is off.
- B. To maintain the CMOS chip's data (time, date, and BIOS settings).
- C. To provide extra power to the CPU during heavy load.
- D. To charge the laptop battery.

Answer: B

19. Which port type is typically used to connect a monitor using a digital, high-definition signal that also transmits audio?

- A. VGA
- B. PS/2
- C. HDMI
- D. Serial Port

Answer: C

20. A Network Device primarily functions to:

- A. Connect internal storage devices.
- B. Enable computers and devices to communicate and share resources.
- C. Process all application instructions.
- D. Convert analog video signals.

Answer: B

21. What does LGA stand for in the context of CPU sockets?

- A. Logical Grid Array
- B. Lower Gate Access
- C. Land Grid Array
- D. Local Graphics Adapter

Answer: C

22. Which connector on the motherboard is responsible for sending power to the SATA and M.2 storage devices?

- A. CPU Socket
- B. Power Supply Connectors
- C. PCIe Slot
- D. CMOS Chip

Answer: B

23. A dynamic microphone is generally known for which key characteristic in relation to speakers/sound?

- A. Its ability to capture sound from very far away.
- B. Its durability and resistance to loud sounds.
- C. Its need for external power (phantom power).
- D. Its extremely high sensitivity to all sounds.

Answer: B

24. Which feature specifies the maximum number of times a monitor can redraw the screen per second?

- A. Response Time
- B. Refresh Rate (Hz)
- C. Resolution
- D. Aspect Ratio

Answer: B

25. The ability of a newer PCIe slot version to use an older PCIe card is called:

- A. Cross-compatibility
- B. Slot Aggregation
- C. Backward Compatibility
- D. Lane Configuration

Answer: C

26. Which type of mouse typically uses an LED or laser to track movement on a surface?

- A. Mechanical Mouse
- B. Optical/Laser Mouse
- C. Trackball Mouse
- D. Trackpad Mouse

Answer: B

27. The smallest detail a webcam can capture is known as its:

- A. Frame Rate
- B. Compression Ratio
- C. Resolution
- D. Bandwidth

Answer: C

28. The main difference between a Dot-matrix printer and a Laser printer is:

- A. Dot-matrix is faster and uses toner.
- B. Laser is faster and quieter, using toner.
- C. Dot-matrix is used for high-quality photos.
- D. Laser is much cheaper than Dot-matrix.

Answer: B

29. Which Motherboard component determines the maximum supported clock speed and type of RAM?

- A. RAM Slot
- B. BIOS Chip
- C. CPU Socket
- D. Chipset

Answer: D

30. Which term refers to the vertical and horizontal pixel count displayed on a monitor (e.g., 1920x1080)?

- A. Aspect Ratio
- B. Resolution
- C. Contrast Ratio
- D. Response Time

Answer: B

31. VRAM is dedicated memory found on which hardware component?

- A. CPU
- B. Motherboard
- C. PSU
- D. GPU (Graphics Processing Unit)

Answer: D

32. The primary difference between a trackball mouse and a standard optical mouse is:

- A. A trackball requires the user to move the ball, not the mouse body.
- B. An optical mouse is cheaper.
- C. A trackball has no buttons.
- D. An optical mouse is only for gaming.

Answer: A

33. Which type of memory stores firmware that is essential for initializing and testing system hardware components?

- A. RAM
- B. Cache
- C. BIOS Chip
- D. Secondary Storage

Answer: C

34. A standard SATA 3.0 port can achieve a theoretical maximum transfer speed of:

- A. 1.5 Gb/s
- B. 3.0 Gb/s
- C. 6.0 Gb/s
- D. 12.0 Gb/s

Answer: C

35. The "Lanes" of a PCIe slot are typically denoted by what symbol (e.g., in a designation like ×16)?

- A. The percentage sign (%)
- B. The division sign (÷)
- C. The multiplication sign (×)
- D. The addition sign (+)

Answer: C

36. Which type of Application Software would be used for financial record-keeping and data manipulation?

- A. Operating System
- B. Word Processor
- C. Spreadsheet Program
- D. Utility Software

Answer: C

37. The PSU is rated by its maximum output in which unit?

- A. Volts (V)
- B. Amperes (A)
- C. Watts (W)
- D. Hertz (Hz)

Answer: C

38. The process of converting a physical document into a digital file is performed by a:

- A. Printer
- B. Monitor
- C. Scanner
- D. Mouse

Answer: C

39. The PGA socket uses what mechanism to securely hold the CPU's pins without forcing them in?

- A. A complex locking latch
- B. Ball Grid Array soldering
- C. A Zero Insertion Force (ZIF) lever
- D. Simple friction

Answer: C

40. Which factor is most important when choosing the right RAM for a motherboard?

- A. The color of the RAM sticks.
- B. Matching the RAM type (e.g., DDR4 or DDR5) and speed supported by the Chipset.
- C. The brand name of the RAM.
- D. The size of the RAM heatsinks.

Answer: B