

Technology In Action, Complete, 14e (Evans et al.)

Chapter 6 Understanding and Assessing Hardware: Evaluating Your System

- 1) The rule of thumb that predicts that the number of transistors on a CPU will double every two years is called _____ Law.
 - A) Charles'
 - B) Moore's
 - C) Intel's
 - D) Boyle's

- 2) Which of the following is the lightest computer?
 - A) Laptop
 - B) Ultrabook
 - C) Tablet
 - D) Desktop

- 3) The processor market for desktop and laptop computers is dominated by _____.
 - A) IBM
 - B) Microsoft
 - C) Intel
 - D) Apple

- 4) Which of the following does NOT determine a CPU's processing power?
 - A) Clock speed
 - B) Number of cores
 - C) Amount of cache memory
 - D) Speed of the motherboard

- 5) Which of the following activities is carried out by the ALU?
 - A) Moves read/write heads
 - B) Performs arithmetic calculations
 - C) Creates virtual memory
 - D) Renders video images

- 6) All of the following are part of the machine cycle EXCEPT _____.
 - A) fetch
 - B) encode
 - C) execute
 - D) store

- 7) The CPU consists of which two parts?
 - A) The arithmetic logic unit and the front side bus
 - B) The control unit and the arithmetic logic unit
 - C) The control unit and the front side bus
 - D) Cache memory and SSD storage

- 8) The control unit is one component of the _____.
- A) CPU
 - B) cache
 - C) front side bus
 - D) clock
- 9) Running the CPU at a faster speed than the manufacturer recommends is called _____.
- A) fetching
 - B) latency
 - C) overclocking
 - D) hyperthreading
- 10) Cache memory levels are based on proximity to _____.
- A) the hard drive
 - B) RAM
 - C) the processor
 - D) the video card
- 11) _____ provides high-speed information processing by enabling a new set of instructions to start before the previous set is finished.
- A) Multitasking
 - B) Cache memory
 - C) Hyperthreading
 - D) Overclocking
- 12) Some of the cache memory of a CPU is _____.
- A) inside the CPU, itself
 - B) on the hard disk drive
 - C) on a nearby SSD
 - D) in cloud storage
- 13) RAM is an example of _____ storage.
- A) volatile
 - B) nonvolatile
 - C) permanent
 - D) mobile
- 14) The amount of RAM storage is measured in _____.
- A) gigabytes
 - B) gigahertz
 - C) gigabits
 - D) machine cycles

15) Windows uses a memory-management technique known as _____ to monitor which applications you use most frequently and then preloads them into your system memory.

- A) SuperGet
- B) SuperFetch
- C) SuperTake
- D) SuperRetrieve

16) Select the best way to determine your RAM allocation.

- A) List all programs you would run simultaneously and the amount of RAM each needs and add together.
- B) Count the number of available slots on the motherboard.
- C) Divide the number of used memory slots by the number of total memory slots.
- D) Monitor RAM usage in performance monitor and calculate an average of RAM used over 10 random periods.

17) When referring to hard drives, access time is measured in _____.

- A) megahertz
- B) bits per second
- C) milliseconds
- D) kilobytes

18) A _____ uses electronic memory and has no motors or moving parts.

- A) mechanical hard drive
- B) solid-state drive
- C) Bluray disc
- D) digital video disc

19) How do optical discs store data?

- A) A laser burns tiny pits onto a disc.
- B) A magnet aligns iron particles on a platter.
- C) Electronic memory records data on chips.
- D) A digital spectrometer leaves grooves in a platter.

20) Which of the following is NOT a permanent storage option?

- A) Optical drive
- B) Random access memory
- C) Internal hard drive
- D) SSD

21) The _____ has the largest capacity of any storage device.

- A) compact disc
- B) solid state drive
- C) Bluray disc
- D) mechanical hard drive

- 22) Which of the following ports is NOT considered to be exclusively a video port?
- A) HDMI
 - B) DVI
 - C) USB
 - D) DisplayPort
- 23) To speed up the display of graphics, a(n) _____ is integrated into some video cards.
- A) GPU
 - B) CPU
 - C) ALU
 - D) SSD
- 24) A(n) _____ enables the computer to drive the speaker system.
- A) HDMI port
 - B) display port
 - C) sound card
 - D) PCI bus
- 25) How many channels are in a Dolby 7.1 surround sound system?
- A) 7
 - B) 8
 - C) 6
 - D) 12
- 26) Running the Disk Defragmenter utility will _____.
- A) detect and remove spyware
 - B) mark bad memory cells
 - C) make the hard drive work more efficiently
 - D) clean out your Startup folder
- 27) Running the Disk Cleanup utility is a quick way to _____.
- A) defrag your hard drive
 - B) remove spyware programs
 - C) clear out unnecessary files
 - D) clean out your Startup folder
- 28) To remove all the changes made to your system, the Windows _____ utility returns your computer to the state it was in when it came from the factory.
- A) Backup
 - B) Erase
 - C) Restore
 - D) Refresh

- 29) Which statement pertaining to system reliability is FALSE?
- A) Having the latest version of software products can make your system more reliable.
 - B) An accumulation of temporary Internet files has no effect on your computer's overall performance.
 - C) You can clean out unnecessary programs from your Startup folder.
 - D) When you defrag your hard drive, it works more efficiently.
- 30) To securely erase data, the U.S. Department of Defense suggests that data be _____.
- A) overwritten seven times
 - B) deleted
 - C) encoded
 - D) refactored