

# Cpte test 1-3 questions. and answers



**ASSIGN  
BUSTER**

The number of colors available in a graphic is referred to as color \_\_\_\_\_.

- A. depth
- B. range
- C. RGB
- D. PNGA. depth

The process of converting information, such as text, numbers, photos, or music, into digital data that can be manipulated by electronic devices is called \_\_\_\_\_.

- A. binary
- B. digitization
- C. representation
- D. none of the aboveB. digitization

Which of the following is NOT a type of bitmap format?

- A. TIFF
- B. RAW
- C. PNG
- D. ZIPD. ZIP

Which of the following is NOT a factor in the quality of digital video?

- A. frame rate and resolution
- B. color and bit depth
- C. compression technique
- D. memory technology in your cameraD. memory technology in your camera

Today's widescreen devices, such as laptops and smartphones, are designed for the 16: 9 \_\_\_\_\_.

- A. resolution
- B. aspect ratio
- C. frame rate
- D. all of the above

Digital data can be \_\_\_\_\_ that have been converted into discrete digits such as 0s and 1s.

- A. text
- B. numbers
- C. graphics, sound, and video
- D. all of the above

Most graphics software uses a process called pixel \_\_\_\_\_ to create new pixels by averaging the colors of nearby pixels.

- A. polarization
- B. interpolation
- C. compression
- D. resolution

The number of frames that are displayed per second is measured in \_\_\_\_\_.

- A. compression
- B. fps
- C. color depth
- D. bps

Which of the following tools would be found in 3 D graphics software?

- A. rendering tools
- B. ray tracing tools

C. surface texture tools

D. all of the aboveD. all of the above

Unicode uses \_\_\_\_\_ bits and provides codes for 65, 000 characters.

A. seven

B. eight

C. ten

D. sixteenD. sixteen

\_\_\_\_\_ is music, speech, and other sounds represented in binary format for use in digital devices.

A. MIDI

B. speech recognition

C. speech synthesis

D. Digital audioD. Digital audio

Compressed files usually have \_\_\_\_\_ at the end of the file name.

A. . exe

B. . zip

C. . txt

D. none of the aboveB. . zip

\_\_\_\_\_ data consists of numbers that can be used in arithmetic operations.

A. Text

B. Digital

C. Numeric

D. BinaryC. Numeric

3-D graphics are based on vectors stored as a set of instructions describing the coordinates for lines and shapes in a three-dimensional space. What do these vectors form?

- A. a bitmap graphic
- B. a zipped file
- C. a wireframe
- D. all of the above

Which of the following is the technique for adding light and shadows to a 3-D image?

- A. rendering
- B. ray tracing
- C. wireframe
- D. rasterize

Which of the following file extensions is NOT a vector graphic?

- A. . svg
- B. . eps
- C. . tif
- D. . ai

Digital audio is stored in a variety of file formats, including \_\_\_\_\_.

- A. WMA
- B. WAV
- C. MP3
- D. all of the above

Transmission speeds are expressed in \_\_\_\_\_, whereas storage space is expressed in \_\_\_\_\_.

- A. bits, bytes
  - B. bytes, bits
  - C. binary, numeric
  - D. none of the above
- A. bits, bytes

ASCII requires \_\_\_\_\_ bits for each character.

- A. two
  - B. six
  - C. seven
  - D. ten
- C. seven

A(n) \_\_\_\_\_ is the software that compresses a video stream when a video is stored, and decompresses the file when the video is played.

- A. compression
  - B. codec
  - C. bitmap
  - D. resolution
- B. codec

Sampling \_\_\_\_\_ refers to the number of times per second that a sound is measured during the recording process.

- A. rate
  - B. compression
  - C. depth
  - D. sound
- A. rate

Digital video is a core technology for which of the following?

- A. digital television
- B. videoconferencing systems
- C. video messaging
- D. all of the above

What is another term for vector graphics software?

- A. Drawing software
- B. Photo editing software
- C. Digital compositing
- D. All of the above

Which of the following is NOT a type of digital video container file?

- A. MP4
- B. AVI
- C. VOB
- D. PNG

In the context of bitmap graphics editing, what technique employs algorithms that pull pixels from one area of an image and then apply them to another area?

- A. inpainting
- B. cloning
- C. noise reduction
- D. image enhancement

The \_\_\_\_\_ number system allows digital devices to represent virtually any number simply by using 0s and 1s.

- A. digital
- B. text
- C. numeric
- D. binaryD. binary

\_\_\_\_\_ is the number of bits that are processed during a specific unit of time, usually during one second.

- A. Bit rate
- B. Bit depth
- C. Color depth
- D. none of the aboveA. Bit rate

Which of the following options are well suited for using vector graphics?

- A. line art
- B. logos
- C. diagrams
- D. all of the aboveD. all of the above

What is the term used to describes altering the pixel colors where the edges of the object and the background meet, so that the object appears to merge with the background?

- A. Alpha blending
- B. Clipping path
- C. Cloning
- D. InpaintingA. Alpha blending

Which of the following is NOT a format that is used for digital audio?

- A. MP3



- B. DOC
- C. WAV
- D. OggB. DOC

\_\_\_\_\_ enables people to control software with spoken commands, as well as dictate text into a word processing document.

- A. MIDI
- B. Speech synthesis
- C. Speech recognition
- D. Phonemes

Most music for portable media players is stored in \_\_\_\_\_ audio file formats.

- A. uncompressed
- B. compressed
- C. lossless
- D. zippedB. compressed

Today's color display devices represent color using the \_\_\_\_\_ color model.

- A. RGB
- B. PNG
- C. BMP
- D. none of the aboveA. RGB

A group of eight bits is called a \_\_\_\_\_.

- A. byte
- B. megabit
- C. binary
- D. numeric dataA. byte

T or F: After a vector graphic is converted to a bitmap, the resulting graphic no longer has the qualities of a vector graphic. T

T or F: The binary number system has only two digits: 1 and 2. F

T or F: To conserve space, applications that require high-quality sound use low sampling rates. F

T or F: The technical term for ripping music tracks is digital audio extraction.

T

T or F: Video resolutions can be expressed as width x height. T

T or F: ASCII text files contain formatting. F

T or F: Lossy compression techniques discard some data from an image to shrink its file size. T

T or F: In digital video, a lower resolution reduces the bit rate. T

T or F: TIFF, PNG, and GIF graphics formats offer lossy compression F

T or F: A bitmap graphic is composed of a grid of tiny rectangular cells. T

T or F: All of the data stored and transmitted by digital devices is encoded as bits. T

T or F: Digital videos look sharpest when they are displayed at a resolution that is larger than the frame size. F

T or F: Plain, unformatted text is sometimes called ASCII text. T

T or F: A file name extension indicates the file format. T

T or F: One of the main disadvantages of MIDI is that it cannot produce vocals. T

T or F: Character data is composed of letters, symbols, and numerals that are used in calculations. F

Which of the following is an important consideration when evaluating storage options for digital devices?

- A. Durability
- B. Dependability
- C. Capacity
- D. All of the above

Modern refrigerators, washing machines, and other appliances are controlled by integrated circuits called \_\_\_\_\_ that combine sensors with processing circuitry.

- A. microcontrollers
- B. microcomputers
- C. servers
- D. microdevices

The part of the data bus that runs between the microprocessor and RAM is called the \_\_\_\_\_ bus.

- A. local
- B. expansion

C. USB

D. networkA. local

A(n) \_\_\_\_\_ contains a collection of instructions for actions that the circuitry in a microprocessor can perform.

A. ALU

B. ARM

C. microprocessor

D. instruction set

that is great for consuming content

such as ebooks, music, and videos but not so great for creating content or multitasking?

A. Tablet

B. Smartphone

C. Desktop

D. Laptop

A. Tablet

\_\_\_\_\_ is data that is entered into a computer. \_\_\_\_\_ is the result produced by a computer.

A. Output, Input

B. Input, Output

C. Information, Binary data

D. None of the aboveB. Input, Output

\_\_\_\_\_ is the amount of data a storage device can move per second from the storage medium to RAM.

- A. Access time
- B. Data transfer rate
- C. Bitrate
- D. RPMB. Data transfer rate

Microprocessors can't directly understand programming languages, so programs have to be converted into \_\_\_\_\_ that corresponds to the microprocessor's instruction set.

- A. applications
- B. machine language
- C. microprocessors
- D. ARMB. machine language

Most computers have temporary holding areas called \_\_\_\_\_.

- A. output
- B. microprocessor
- C. CPU
- D. memoryD. memory

Which optical storage technology stores data permanently on a disc, which cannot be subsequently added to or changed.

- A. Read-only
- B. Recordable
- C. Rewritable
- D. None of the aboveA. Read-only

\_\_\_\_\_ is a temporary holding area for data and programs.

- A. CISC
- B. RAM
- C. ROM
- D. RISC

What type of computer should you consider purchasing if you want a portable system that is good for students and on-the-go professionals who want to create content and be productive, in addition to consuming content?

- A. Desktop
- B. Laptop
- C. Tablet
- D. Smartphone

Originally called microcomputers, \_\_\_\_\_ are designed to meet the computing needs of individuals.

- A. mainframes
- B. personal computers
- C. microcomputers

Which of the following is based on computer technology?

- A. tablets
- B. ebook readers
- C. game consoles
- D. all of the above

Which of the following is an example of an operating system that is used by smartphones?

- A. iOS
- B. Android
- C. Windows RT
- D. All of the above

Processors that execute one instruction at a time are considered to be \_\_\_\_\_ processors

- A. serial
- B. parallel
- C. pipeline
- D. none of the above

The primary purpose of \_\_\_\_\_ software is to help the computer system monitor itself in order to function efficiently.

- A. system
- B. application
- C. input
- D. memory

The most popular battery type used in today's electronic devices is \_\_\_\_\_.

- A. nickel-cadmium
- B. alkaline
- C. lithium ion
- D. none of the above

The term \_\_\_\_\_ refers to the part of a digital device that holds the system board.

- A. form factor
- B. CPU
- C. system board
- D. system unitD. system unit

The main circuits on the system board that carry data are called the \_\_\_\_\_.

- A. ROM
- B. RAM
- C. expansion bus
- D. data busD. data bus

Which of the following is an example of why hard disk drives are so popular?

- A. They are not susceptible to a head crash
- B. Relatively low cost for lots of storage
- C. they are volatile
- D. All of the aboveB. Relatively low cost for lots of storage

A(n) \_\_\_\_\_ is software that helps a peripheral device establish communication with its host device.

- A. device hub
- B. device driver
- C. hot-plug
- D. data busB. device driver

What type of computer should you consider purchasing if you want a system that is ideal for dedicated gamers, serious designers, desktop publishers, and video editors?



- A. Laptop
- B. Desktop
- C. Tablet
- D. SmartphoneB. Desktop

The electronic components of most digital devices are mounted on a circuit board called a \_\_\_\_\_.

- A. system board
- B. motherboard
- C. main board
- D. all of the aboveD. all of the above

The advantages of LCD screens include display clarity, low radiation emission, portability, and compactness.

- A. display clarity
- B. low radiation emission
- C. portability
- D. all of the aboveD. all of the above

Which of the following is an example of a computer that is a small, lightweight personal computer that is designed like a clam shell?

- A. Desktop computer
- B. Laptop computer
- C. Server
- D. TabletB. Laptop computer

Which of the following is NOT an example of an expansion port?

- A. Thunderbolt

- B. USB 3. 0
- C. HDMI
- D. RAMD. RAM

At its time of construction, one of the fastest computers in the world is referred to as a(n) \_\_\_\_\_.

- A. mainframe
- B. supercomputer
- C. minicomputer
- D. all of the aboveB. supercomputer

Which of the following is NOT drawback of using cloud storage?

- A. Increased security risk.
- B. High price of storage.
- C. Possible service outage.
- D. Discontinuation of service. B. High price of storage.

In a microprocessor, the \_\_\_\_\_ fetches instructions.

- A. ALU
- B. register
- C. CPU
- D. control unitD. control unit

True

False

All remote storage is considered to be cloud storage. False

True

False

When a peripheral device is connected or disconnected while the host device is operating, it is called hot-plugging. True

True

False

A desktop is a portable computing device featuring a touch-sensitive screen that can be used for input as well as for output. False

True

False

The operating systems for smartphones are radically different to those used for tablet computers. False

True

False

The CPU of most modern computers is a microprocessor. True

True

False

The ability to switch between programs makes computers multipurpose devices. True

True

False

The Intel i7 microprocessor is x86 compatible. True

True

False

Intel Corporation is the world's largest chipmaker and supplies a sizeable percentage of the microprocessors that power desktops and laptops. True

True

False

Smartwatches are multifunction devices that can include a camera, thermometer, compass, calculator, cell phone, GPS, media player, and fitness tracker. True

True

False

A hard disk drive is an example of magnetic storage. True

True

False

Most computer ads specify the speed of a microprocessor in gigahertz. True

True

False

Component systems are currently the most popular form factor for digital devices. False

True

False

A slate tablet configuration is basically a screen in a narrow frame that lacks a physical keyboard. True

True

False

A multicore processor that executes more than one instruction at a time is referred to as a parallel processor. True

True

False

In a display device, response rate is the time it takes for one pixel to change from black to white then back to black. True

True

False

During an instruction cycle, all parts of the instruction are performed by the microprocessor's control unit. False

True

False

Computers with the same operating systems can typically use the same software and peripheral devices. True

True

False

Smartphones evolved from basic cell phones and PDAs. True

True

False

Battery life is the time your device operates before it must be recharged.

True

True

False

An example of system software is a computer operating system. True

Internet addresses are controlled by which one of the following protocols?

A. TCP

B. IP

C. UDP

D. HTTPB. IP

Which of the following is an example of a DCE?

A. router

B. modem

C. hub

D. all of the aboveD. all of the above

Which type of broadband Internet access involves using cellular data networks?

A. Fixed

B. Portable

C. Mobile

D. Dial-upC. Mobile

Which of the following is an advantage of wired connection?

A. more secure

B. more dependable

C. faster speeds

D. all of the aboveD. all of the above

Networks that form the Internet are maintained by who?

- A. ISPs
- B. IXPs
- C. ICANN
- D. All of the above

Which type of network cover a large geographical area and usually consists of several smaller networks, which might use different computer platforms and network technologies.

- A. PAN
- B. LAN
- C. WAN
- D. VPN

What type of Internet connection do you have when upload speed differs from download speed?

- A. Dynamic
- B. Asymmetric
- C. Broadband
- D. Symmetric

What organization is the top-level authority for supervising domain name requests?

- A. DNS
- B. HTTP
- C. ISPs
- D. ICANN

On a network, any device that stores or generates data is considered to be a(n) \_\_\_\_\_.

- A. router
- B. DTE
- C. DCE
- D. ATPC. DCE

DSL is an example of what type of Internet access?

- A. Mobile
- B. Portable
- C. Fixed
- D. WirelessC. Fixed

Which DCE would you use if you wanted to extend a wired network by adding more ports?

- A. Hub
- B. Switch
- C. Bridge
- D. RepeaterA. Hub

\_\_\_\_\_ are designed to provide connectivity for devices within a limited area, typically within the premises of a home, office building, business, or school.

- A. WANs
- B. PANs
- C. LANs
- D. BANsC. LANs



Which network tier forms the Internet backbone?

- A. Tier 1
- B. Tier 2
- C. Tier 3
- D. Tier 4A. Tier 1

Which type of protocol provides a way to transfer files from one computer to another over any TCP/IP network, such as a LAN or the Internet.

- A. FTP
- B. UDP
- C. TCP
- D. PANB. UDP

Suppose you wanted to run a Web server or FTP server from your home.

What type of IP address would you want?

- A. Dynamic
- B. Static
- C. TCP
- D. Broadband

Which type of network topology connects a peripheral device to a host device?

- A. Mesh
- B. Star
- C. Bus
- D. Point-to-pointD. Point-to-point

Which type of network topology connects multiple devices to a central device?

- A. Mesh
  - B. Star
  - C. Bus
  - D. Point-to-point
- B. Star

Which file sharing protocol distributes the role of a file server across a collection of dispersed computers?

- A. FTP
  - B. UDP
  - C. Dropbox
  - D. BitTorrent
- D. BitTorrent

Which type of mobile broadband service has maximum download rates of 300 Mbps and upload rates of 75 Mbps?

- A. TCP
  - B. ICANN
  - C. 3G
  - D. 4G
- D. 4G

\_\_\_\_\_ LANs are usually arranged in a star topology with computers wired to central switching circuitry that is incorporated in modern routers.

- A. Internet
  - B. Ethernet
  - C. Wireless
  - D. Mobile
- B. Ethernet

On a network, which protocol is responsible for dividing files into chunks, adding headers containing information for reassembling packets in their original order, and error checking?

- A. UDP
- B. IP
- C. TCP
- D. FTPC. TCP

Which type of communication protocol converts data into standard formats that can be used by applications?

- A. Physical
- B. Transport
- C. Arrival
- D. None of the aboveC. Arrival

The bandwidth of a channel that carries digital data is usually measured in \_\_\_\_\_.

- A. bytes per second
- B. bits per second
- C. Ghz
- D. microwavesB. bits per second

\_\_\_\_\_ technology divides a message into several packets that can be routed independently to their destination.

- A. Handshaking
- B. Packet switching

C. Packet sniffing

D. circuit switchingB. Packet switching

Which type of cables are used for high-capacity trunk lines that provide main routes for telephone, cable, and Internet communications?

A. Category 6 cables

B. fiber-optic cables

C. coaxial cables

D. all of the aboveB. fiber-optic cables

Which type of network connects smart devices or consumer electronics within a range of about 30 feet (10 meters) and without the use of wires or cables.

A. PAN

B. LAN

C. WAN

D. VPNA. PAN

Which type of network topology allows for redundant paths between devices that can be used to bypass failed devices?

A. Mesh

B. Star

C. Bus

D. Point-to-PointA. Mesh

True

False

Dropbox is an example of a file hosting service. True

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True

False

Most wireless LANs use licensed frequencies that require applying to the FCC for permission. False

True

False

A communication port is a physical circuit through which data flows. True

True

False

Wi-Fi signals may reach up to 300 feet from the router. True

True

False

LANs use many of the same network technologies as the Internet. True

True

False

Domain name servers maintain lists of all domain names and their corresponding IP addresses. True

True

False

Data cannot flow over multiple networks that have different topologies. False

True

False

You may be able to bypass DNS outages by changing your DNS server. True

True

False

Microwaves have more carrying capacity than radio waves. True

True

False

With wired connections, such as Ethernet, the rated speed and range are usually quite different to actual performance. False

True

False

File sharing poses no real security risks. False

True

False

Napster spurred the development of sophisticated, distributed protocols such as BitTorrent. True

True

False

Connection speed is technically a measure of capacity. True

True

False

The organization that supervises Internet addressing is ARPANET. False

True

False

Wireless connections use licensed frequencies that are available for public use. False

True

False

UDP is faster than TCP but does not perform error checking. True

True

False

When connecting to the Internet, most Internet users connect to a Tier 1 network. False

True

False

Most Internet connections are symmetrical. False

True

False

You can set up Wi-Fi to use wireless mesh topology OR star topology. True

True

False

When interference affects a wireless signal, data must be re-transmitted.

True

True

False

When setting up a Wi-Fi network, the router you select should support the fastest device you'll want to use on the network. True

True

False

A private IP address can be used to send data over the Internet. False

True

False

The Internet is the world's largest WAN. True

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