Test Bank for Technology In Action Introductory 14th Edition by Evans IBSN 9780134608211

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Technology In Action, Complete, 14e (Evans et al.) Chapter 2 Looking at Computers: Understanding the Parts

What is the difference between data and information?
 A) Data represents a fact. Information is data that has been organized.
 B) They are essentially the same thing.
 C) Data is numbers. Information is words.
 D) Data represents a process. Information is the stored data.
 Answer: A
 Diff: 1
 Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information
 2) Computers use a _____ language consisting of 0s and 1s.

A) symbol
B) binary
C) byte
D) system
Answer: B
Diff: 1
Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed

3) In binary language, each letter of the alphabet, each number, and each special symbol is made up of a unique combination of eight ______.
A) bytes
B) kilobytes
C) characters
D) bits
Answer: D
Diff: 2
Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed

4) Which of the following is the smallest unit of measure?

A) Megabyte
B) Gigabyte
C) Petabyte
D) Terabyte
Answer: A
Diff: 2
Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed

5) Apple's macOS and Microsoft Windows are examples of ______ software. A) utility B) application C) operating system D) communication Answer: C Diff: 2 Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed 6) An Apple iPad and a Microsoft Surface are examples of _____ computers. A) tablet B) netbook C) desktop D) laptop Answer: A Diff: 1 Objective: 2.03 List common types of computers, and discuss their main features 7) Which of the following computers is large, expensive, and is designed to execute a few programs as fast as possible? A) Desktop computer B) Supercomputer C) Mainframe computer D) Embedded computer Answer: B Diff: 2 Objective: 2.03 List common types of computers, and discuss their main features 8) ______ computers are specially designed computer chips that reside inside other devices, such as a car. A) Tablet B) Desktop C) Embedded D) Netbook Answer: C Diff: 2 Objective: 2.03 List common types of computers, and discuss their main features 9) A keyboard and touch screen are the most common of ______ devices. A) output B) processing C) input D) storage

Answer: C

Diff: 1

Objective: 2.04 Identify the main types of keyboards and touch screens

10) A(n) _____ is an input device that looks like a pen. A) joystick B) e-rod C) pointer D) stylus Answer: D Diff: 1 Objective: 2.04 Identify the main types of keyboards and touch screens 11) Each of these is a basic type of a touch screen, EXCEPT _____. A) resistive B) reflective C) capacitive D) surface acoustic wave Answer: B Diff: 3 Objective: 2.04 Identify the main types of keyboards and touch screens 12) The number of pixels displayed on the screen is known as _____. A) contrast ratio B) aspect ratio C) brightness resolution D) screen resolution Answer: D Diff: 2 Objective: 2.07 Describe options for outputting images and audio from computing devices 13) The most common type of monitor for laptops and desktop computers is a(n) ______. A) liquid crystal display (LCD) B) light-emitting diode (LED) C) organic light-emitting diode (OLED) D) cathode ray tube (CRT) Answer: A Diff: 2 Objective: 2.07 Describe options for outputting images and audio from computing devices 14) The two main categories of home and office printers are ______ and laser printers. A) inkjet B) large format C) cloud-based D) thermal Answer: A Diff: 2 Objective: 2.08 Describe various types of printers, and explain when you would use them

15) ______ printers use static electricity and toner and heat set the image on the page very quickly. A) Inkjet B) Thermal C) Nonimpact D) Laser Answer: D Diff: 1 Objective: 2.08 Describe various types of printers, and explain when you would use them 16) The contains the central electronic components of the computer. A) motherboard B) arithmetic/logic unit C) peripheral unit D) input unit Answer: A Diff: 1 Objective: 2.09 Describe the functions of the motherboard and RAM 17) A ______ enables your computer to connect to other computers or to the Internet. A) video card B) network interface card (NIC) C) sound card D) controller card Answer: B Diff: 2 Objective: 2.09 Describe the functions of the motherboard and RAM 18) The computer stores currently used programs and data in _____. A) ROM B) CPU C) RAM D) USB Answer: C Diff: 2 Objective: 2.09 Describe the functions of the motherboard and RAM 19) RAM is a ______ storage location. A) permanent B) peripheral C) volatile D) nonvolatile Answer: C Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM

20) The area that holds all the startup instructions the computer needs to start is ______.
A) RAM
B) ROM
C) USB
D) CPU
Answer: B
Diff: 2
Objective: 2.09 Describe the functions of the motherboard and RAM

21) A(n) _____ CPU has two processing paths, allowing it to process more than one instruction at a time. A) all-in-one B) bimodal C) dual-core D) dual-mode Answer: C Diff: 3 Objective: 2.10 Explain the main functions of the CPU 22) Which of the following is NOT an example of nonvolatile storage? A) Hard drive B) DVD C) RAM D) Flash drive Answer: C Diff: 2 Objective: 2.11 Describe the various means of storing data and information with computing devices 23) Dropbox is an example of _____.

A) SSD technology
B) cloud storage
C) optical storage
D) Bluetooth technology
Answer: B
Diff: 2
Objective: 2.11 Describe the various means of storing data and information with computing devices

24) All of the following are names for a flash drive EXCEPT _____ drive.
A) jump
B) USB
C) thumb
D) hard
Answer: D
Diff: 2
Objective: 2.11 Describe the various means of storing data and information with computing devices

25) Flash drives plug into a(n) ______.
A) USB port
B) serial port
C) expansion slot
D) drive bay
Answer: A
Diff: 2
Objective: 2.11 Describe the various means of storing data and information with computing devices

26) Which of the following optical storage media has the greatest storage capacity?

A) DVD DL B) DVD C) CD D) Blu-ray Answer: D Diff: 2 Objective: 2.11 Describe the various means of storing data and information with computing devices 27) Which port is the most common port used to connect input and output devices to a computer? A) Universal serial bus (USB) B) Parallel C) FireWire D) Ethernet Answer: A Diff: 2 Objective: 2.12 Describe common types of ports used today

28) To connect a peripheral device to a computer to exchange data, find the appropriate for the device.

A) port
B) drive
C) slot
D) expansion bus
Answer: A
Diff: 2
Objective: 2.12 Describe common types of ports used today

29) Which computer port transmits audio and video without the need for compression?
A) VGA
B) USB
C) HDMI
D) RGA
Answer: C
Diff: 2
Objective: 2.12 Describe common types of ports used today

30) Which of the following is NOT a goal of green IT?

A) Cleaning waterways with repurposed computers

B) Reduce use of electricity

C) Use technology to reduce travel

D) Use technology as long as possible

Answer: A

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices

31) All of the following are ways to avoid injuries when working on computers EXCEPT

A) placing a monitor at least 12" from the eyes

B) purchasing an adjustable chair

C) ensuring proper lighting

D) taking breaks

Answer: A

Diff: 3

Objective: 2.14 Define ergonomics, and discuss the ideal physical setup for using computing devices

32) A ______ is the biggest power consumer on a computer.

A) display

B) hard drive

C) memory module

D) CPU

Answer: A

Diff: 1

Objective: 2.13 Describe how to manage power consumption on computing devices

33) _____ is concerned with the design and arrangement of machines and furniture to avoid uncomfortable or unsafe experiences.

A) Ergonomics

B) Positioning

C) Occupational safety

D) Repetitive strain prevention

Answer: A

Diff: 2

Objective: 2.14 Define ergonomics, and discuss the ideal physical setup for using computing devices

34) ______ is a representation of a fact, a figure, or an idea and can be a number, a word, a picture, or even a recording of sound.

Answer: Data

Diff: 1

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information

35) _____ is the set of computer programs that allows the hardware to perform different tasks.

Answer: Software

Diff: 1

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed

36) A(n) ______ is a computer that is designed to execute a few programs extremely rapidly. Answer: supercomputer

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features

37) A(n) ______ device is a component, such as a keyboard, that connects to the computer. Answer: peripheral

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features

38) A ______ is approximately 1000 bytes.

Answer: kilobyte; KB

Diff: 3

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed

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39) Microphones and scanners are examples of ______ devices. input; peripheral Answer: Diff: 1 Objective: 2.06 Explain how images, sounds, and sensor data are input into computing devices 40) is a wireless transmission standard that lets you connect mobile computing devices to peripheral devices over short distances. Answer: Bluetooth; Bluetooth technology; WiFi; wireless; wi-fi; wi fi Diff: 2 Objective: 2.04 Identify the main types of keyboards and touch screens 41) Display screens that respond to commands initiated with your finger or a stylus are called _____ screens. Answer: touch Diff: 1 Objective: 2.04 Identify the main types of keyboards and touch screens 42) A desktop computer's ______ is the case that houses the main components of the computer and where peripheral devices connect. Answer: system unit; tower Diff: 2 Objective: 2.03 List common types of computers, and discuss their main features 43) The keyboard layout gets its name from the first six letters in the top-left row of alphabetic keys on the keyboard and is the most common English-language keyboard layout. Answer: **QWERTY** Diff: 2 Objective: 2.04 Identify the main types of keyboards and touch screens 44) Joysticks and steering wheels are examples of _____ controllers. Answer: game Diff: 1 Objective: 2.05 Describe the main types of mice and pointing devices 45) A(n) ______ is a small video camera that sits on top of a monitor or is built into a laptop and can be used to transmit live video. Answer: webcam Diff: 2 Objective: 2.06 Explain how images, sounds, and sensor data are input into computing devices 46) A(n) microphone picks up sounds coming from all directions at once and is well suited for conference calls. Answer: omnidirectional Diff: 3 Objective: 2.06 Explain how images, sounds, and sensor data are input into computing devices

47) The width-to-height proportion of a monitor is known as the _____. Answer: aspect ratio Diff: 2 Objective: 2.07 Describe options for outputting images and audio from computing devices 48) Monitors display images by using a grid made up of millions of tiny dots, called ______. Answer: pixels Diff: 2 Objective: 2.07 Describe options for outputting images and audio from computing devices 49) The length of time it takes for a processor to request, locate, open and deliver information stored in RAM is measured in nanoseconds; billionths of a second Answer: Diff: 2 Objective: 2.09 Describe the functions of the motherboard and RAM 50) Each pixel on the newest 4K resolution TVs and monitors is actually made up of four yellow, red, blue, and green ____ subpixels; sub pixels; sub-pixels Answer: Diff: 3 Objective: 2.07 Describe options for outputting images and audio from computing devices 51) A(n) ______ is a device that combines the functions of a printer, scanner, copier, and fax machine into one unit. all-in-one printer; all in one printer Answer: Diff: 2 Objective: 2.08 Describe various types of printers, and explain when you would use them 52) The "brains" of the computer is the _____ CPU; central processing unit; processor; microprocessor Answer: Diff: 2 Objective: 2.10 Explain the main functions of the CPU 53) An SD card is an example of a(n) _____ card. flash memory; memory; secure digital Answer: Diff: 2 Objective: 2.11 Describe the various means of storing data and information with computing devices 54) CDs, DVDs, and ______ discs are examples of optical storage. Answer: Blu-ray; BD; bluray Diff: 2 Objective: 2.11 Describe the various means of storing data and information with computing

devices

55) ______ is a technology most frequently used for credit and debit card processing Near field communication: NFC Answer: Diff: 2 Objective: 2.07 Describe options for outputting images and audio from computing devices 56) _____ mode puts the computer in low power usage, but keeps programs in RAM. Answer: Sleep Diff: 2 Objective: 2.13 Describe how to manage power consumption on computing devices 57) A(n) display color uses the least electricity when compared to any other color. Answer: black Diff: 2 Objective: 2.13 Describe how to manage power consumption on computing devices 58) ______ is a power-saving mode that stores data to a computer's hard drive instead of to its memory. Answer: Hibernate Diff: 2 Objective: 2.13 Describe how to manage power consumption on computing devices 59) Information is data that has been organized or presented in a meaningful fashion. Answer: TRUE Diff: 2 Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information 60) A smartphone is a type of computer. Answer: TRUE Diff: 1 Objective: 2.03 List common types of computers, and discuss their main features 61) The operating system controls how your computer functions. Answer: TRUE Diff: 1 Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed 62) The terms *data* and *information* can be used interchangeably. Answer: FALSE Diff: 1 Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information 63) The fastest super computer in the world has 9,000,000 computing cores. Answer: FALSE Diff: 1

Objective: 2.03 List common types of computers, and discuss their main features

64) Processing is manipulating, calculating, or organizing data into information.

Answer: TRUE

Diff: 2

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information

65) On a keyboard, Num Lock and Caps Lock are both toggle keys.Answer: TRUEDiff: 1Objective: 2.04 Identify the main types of keyboards and touch screens

66) Laser printers are usually faster at printing in black and white than inkjet printers.Answer: TRUEDiff: 3Objective: 2.08 Describe various types of printers, and explain when you would use them

67) All printers can print from smartphones and tablets.Answer: FALSEDiff: 3Objective: 2.08 Describe various types of printers, and explain when you would use them

68) The arithmetic logic unit (ALU) controls all of the functions performed by the computer's other components and processes all the commands issued to it by software instructions.Answer: FALSEDiff: 2Objective: 2.10 Explain the main functions of the CPU

69) Game controllers are output devices.Answer: FALSEDiff: 1Objective: 2.05 Describe the main types of mice and pointing devices

70) Keyboards that display on-screen when text input is required are known as virtual keyboards.Answer: TRUEDiff: 2Objective: 2.04 Identify the main types of keyboards and touch screens

71) Starting a computer when it is powered off is called a warm boot.Answer: FALSEDiff: 2Objective: 2.13 Describe how to manage power consumption on computing devices

72) The area that holds all of the instructions the computer needs to start up is called RAM.Answer: FALSEDiff: 2Objective: 2.09 Describe the functions of the motherboard and RAM

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73) Today's CPUs run at speeds measured in kilohertz.Answer: FALSEDiff: 2Objective: 2.10 Explain the main functions of the CPU

74) Match each of the following terms to its meaning:

- I. CPU
- II. OLED
- III. QWERTY
- IV. ROM
- V. RAM
- A. holds start up instructions needed when the computer is powered on
- B. standard keyboard layout
- C. processes commands issued by software instructions
- D. more energy efficient than LCD monitors
- E. stores programs and data the computer is currently using
- Answer: C, D, B, A, E

Diff: 2

Objective: Multiple Objectives in the Chapter

75) Match each of the following terms to its meaning:

- I. data
- II. processing
- III. information
- IV. software
- V. hardware
- A. represents a fact, figure, or idea
- B. data organized in a meaningful way
- C. physical components of a computer
- D. turning data into information
- E. computer programs

Answer: A, D, B, E, C

Diff: 2

Objective: Multiple Objectives in the Chapter

76) Rank the following from smallest capacity to largest capacity:

- I. terabyte
- II. gigabyte
- III. kilobyte
- IV. megabyte
- V. petabyte
- A. largest
- B. second largest
- C. third largest
- D. fourth largest
- E. fifth largest
- Answer: B, C, E, D, A

Diff: 2

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed

77) Match each of the following terms to its meaning:

- I. input device
- II. peripheral device
- III. output device
- IV. motherboard
- V. system unit

A. case that houses the electronic components, power source, and storage devices of a desktop computer

- B. main circuit board containing the central electronic components of a computer
- C. used to enter data
- D. external device that exchanges data with the computer through ports
- E. displays processed data
- Answer: C, D, E, B, A

Diff: 2

Objective: Multiple Objectives in the Chapter

78) Match each of the following terms to its meaning:

- I. pixel
- II. hertz
- III. bit
- IV. ppm
- V. dpi
- A. measurement of printing speed
- B. unit of measure for processor speed
- C. tiny dot that creates an image on the computer monitor
- D. measurement of printer resolution

E. 0 or 1

Answer: C, B, E, A, D

Diff: 3

Objective: Multiple Objectives in the Chapter

Technology in Action, Helpdesk, 14e (Evans et al.) Chapter 2 Helpdesk: Exploring Storage Devices and Ports

1) ______ usually have the largest storage capacity of any storage device inside the computer. A) DVD drives B) Blu-ray drives C) Hard drives D) Flash memory cards Answer: C Diff: 2 2) Which of the following statements about your computer's primary hard drives is FALSE? A) Some hard drives hold up to 8 TB of information. B) Hard drives are nonvolatile storage devices. C) Internal hard drives use a laser to read and write data. D) Internal hard drives are enclosed in the system unit. Answer: C Diff: 3 3) Which of the following is NOT an optical storage device? A) CD B) Flash drive C) Blu-ray D) DVD Answer: B Diff: 2 4) Which of the following *optical* storage devices holds the most high-definition video? A) DVD B) BD C) CD D) Hard drive Answer: B

Diff: 2

5) You can increase the number of USB ports on your computer by adding a(n) ______.
A) jump drive
B) repeater
C) expansion hub
D) gateway
Answer: C
Diff: 1

6) Which of the following ports do you need to use with a home theater system? A) DVI B) FireWire C) SVGA D) HDMI Answer: D Diff: 2 7) Which of the following ports has the fastest data transfer rate? A) SVGA B) FireWire 800 C) USB 3.0 D) DVI Answer: C Diff: 2 8) Which of the following storage devices has the most capacity? A) CD B) Cache C) BD D) DVD Answer: C Diff: 2

9) Which of the following statements about flash memory is FALSE?

A) Flash memory cards are often used in smartphones.

B) Some flash memory cards can store 256 GB of data.

C) A flash drive is needed to read a flash memory card.

D) Some flash memory can be plugged directly into a USB port.

Answer: C

Diff: 3

10) ______ are the places that peripheral devices attach to the computer.

A) Hubs

B) RepeatersC) Ports

D) Gateways

Answer: C

Diff: 1

11) Which of the following ports are used to connect a computer to a cable modem or to a network? A) FireWire B) Ethernet C) DVI D) HDMI Answer: B Diff: 2 12) _____ memory cards are removable storage devices that let you transfer digital data to a computer. Answer: Flash Diff: 3 13) A high-capacity _____ hard drive is a viable, portable option for backing up the data on your computer's primary hard drive. Answer: external Diff: 3 14) Flash drives plug into a(n) _____ port on a computer. Universal Serial Bus (USB) Answer: Diff: 1 15) Blu-ray and DVDs are referred to as _____ media. optical; storage Answer: Diff: 1 16) The most common ports used to connect input and output devices are _____ ports. Universal Serial Bus (USB) Answer: Diff: 2 17) _______ services allow you to keep your files on the Internet so you can access your files from any computer. Answer: Cloud storage; Cloud Diff: 2 18) A(n) ______ is also referred to as a jump drive, USB drive, or flash drive. Answer: thumb drive Diff: 2

19) Match each of the following ports to its most common use:

- I. USB
- II. Ethernet
- III. DVI
- IV. VGA
- V. HDMI
- A. used for home theater systems
- B. commonly used for connecting input and output devices
- C. commonly used to connect CRT monitors in older systems
- D. used to connect a computer to a network
- E. commonly used to connect projectors to a computer system
- Answer: B, D, E, C, A

Diff: 2

Technology in Action, Helpdesk, 14e (Evans et al.) Chapter 2 Helpdesk: Understanding Bits and Bytes

1) One byte is equal to _____. A) 8 characters B) 1 word C) 8 bits of data D) 100 bits of data Answer: C Diff: 2 2) A bit consists of a _____. A) single letter such as R and BB) 0 or a 1 C) number such a 2 or 9 D) series of 0s and 1s such as 101 Answer: B Diff: 2 3) Which of the following CANNOT be represented by a single byte? A) A letter of the alphabet such as *Y* B) A word such as *Tom* C) A number such as 45 D) A special character such as @ Answer: B Diff: 2 4) *Bit* is short for _____. A) binary digit B) byte C) kilobyte D) megabyte Answer: A Diff: 1 5) Computers work only with _____. A) letters and symbols B) binary numbers C) hexadecimal numbers D) decimal numbers Answer: B Diff: 2

6) A kilobyte contains approximately one _____ bytes of data. A) hundred B) thousand C) million D) billion Answer: B Diff: 2 7) A megabyte holds approximately _____ bytes of data. A) 1,000,000 B) 1,000,000,000 C) 1,000,000,000,000 D) 1,000,000,000,000,000 Answer: A Diff: 2 8) Eight binary digits is equal to _____. A) 1 word B) 1 byte C) 1 bit D) 100 bytes Answer: B Diff: 2 9) Which of the following statements is FALSE? A) Everything a computer does is broken down into a series of 0s and 1s. B) When referring to computers, every number, letter, or special character consists of a unique combination of 8 bits. C) Bit is short for binary digit.

D) A single bit can represent a single letter. Answer: D Diff: 3

10) A kilobyte holds ______ bytes of data.
A) 256
B) 1,024
C) 16
D) 1,048,576
Answer: B
Diff: 3

11) Which of the following is the smallest unit of measure? A) Gigabyte B) Megabyte C) Petabyte D) Terabyte Answer: B Diff: 2 12) Which of the following is the largest unit of measure? A) Terabyte B) Megabyte C) Petabyte D) Kilobyte Answer: C Diff: 2 13) How many bits does it take to spell the word yes? A) 3 **B**) 8 C) 24 D) 30 Answer: C Diff: 3 14) Which of the following is NOT an example of data? A) A sound B) A word C) A report D) A picture Answer: C Diff: 3 15) The representation of a fact, figure, or idea is called _____. A) information B) byte C) data D) input Answer: C Diff: 2 16) Data that has been organized is called _____. A) binary digits B) information C) bytes D) output Answer: B Diff: 2

17) Computers use _____ language to process data at the most basic level. A) computer B) English C) C++ D) binary Answer: D Diff: 2 18) In reference to units of measurement, KB stands for _____. Answer: kilobyte Diff: 2 19) In reference to units of measurement, GB stands for _____. Answer: gigabyte Diff: 2 20) Processor speeds are measured in units of _____. hertz; Hz; megahertz; MHz Answer: Diff: 2 21) Match each of the following terms to its definition: I. bit II. byte III. hertz IV. megabyte V. terabyte A. 8 binary digits B. greater than a kilobyte, smaller than a gigabyte C. machine cycles per second D. 0 or 1 E. more than one trillion bytes

Answer: D, A, C, B, E

Diff: 3

Technology in Action, Helpdesk, 14e (Evans et al.) Chapter 2 Helpdesk: Using Output Devices

1) Two of the most important factors to consider when choosing an LCD monitor are its resolution and _____.

A) refresh rateB) aspect ratioC) contrastD) dot pitchAnswer: BDiff: 2

2) With a liquid crystal display (LCD) monitor, what causes images to be displayed on the screen?

A) Light surrounding the images

B) Up and down movement of light

C) An electric current passing through the liquid crystal solution and moving the crystals to either block the fluorescent light or let the light shine through

D) Static electricity Answer: C Diff: 3

3) An LCD screen is composed of a fixed grid of _____.

A) organic materialsB) phosphors

C) pixels

D) rays

Answer: C Diff: 2

4) The colors displayed by an LCD monitor are made by combining which of the following colors?

A) Cyan, yellow, magenta, and black

B) Red, blue, and green

C) Green, blue, and yellow

D) Yellow, red, blue, and green

Answer: D

Diff: 3

5) An LCD's viewing angle is measured in _____.
A) degrees
B) refreshes
C) megahertz
D) inches
Answer: A
Diff: 2

6) A monitor's ______ is a measure of the difference in light intensity between the brightest white and the darkest black colors. A) brightness B) resolution C) aspect ratio D) contrast ratio Answer: D Diff: 2 7) A printer's resolution is measured in _____. A) dpi B) pixels C) ppm D) pdf Answer: A Diff: 2 8) Speed for printers is measured in _____. A) pps B) Kps C) Mhz D) ppm Answer: D Diff: 2 9) To accommodate HD format video, new monitors have an aspect ratio of ______. A) 25:16 B) 5:4 C) 16:9 D) 4:3 Answer: C Diff: 3 10) The resolution of a monitor has to be at least to play a Blu-ray movie. A) 1600 × 1200 B) 1920 × 1080 C) 1024 × 768 D) 1366 × 768 Answer: B Diff: 3

11) Response time refers to the amount of time it takes _____. A) to begin printing once you have clicked Print B) for your computer to boot up C) for a pixel to change color D) to adjust the settings on a monitor Answer: C Diff: 1 12) Flat-panel monitors are also called _____ monitors. liquid crystal display (LCD); light emitting diode (LED) Answer: Diff: 1 13) Images are created on an LCD monitor using millions of tiny dots known as Answer: pixels Diff: 1 14) A(n) _____ printer uses toner rather than wet ink. Answer: laser Diff: 2 15) An inkjet printer sprays ink onto the page and is an example of a(n) printer. nonimpact; non-impact Answer: Diff: 2 16) The ______ of a monitor tells how far you can move to the side, above, or below the monitor before the image quality degrades to unacceptable levels. Answer: viewing angle Diff: 2 17) A(n) ______ printer works either by melting wax-based ink onto ordinary paper or by burning dots onto specially coated paper. Answer: thermal Diff: 2 18) LCD stands for .

Answer: liquid crystal display Diff: 2 19) Match each of the following terms to its definition:

- I. contrast ratio
- II. brightness
- III. viewing angle
- IV. response time
- V. resolution

A. how long it takes a pixel to change color

B. the difference in light intensity between the brightest white and the darkest black colors a monitor can produce

C. measured as candelas per square meter

D. tells how far you can move to the side, above, or below a monitor before the image quality degrades below acceptable levels

E. number of pixels displayed on a screen

Answer: B, C, D, A, E Diff: 3

20) Match each of the following printer concepts or terms to its measurement or function:

- I. printer speed
- II. printer resolution
- III. inkjet printers
- IV. all-in-one
- V. laser printers

A. measured in ppm

- B. measured in dpi
- C. generally produce the highest quality printouts
- D. affordable and produce photo-quality images
- E. combines the functions of a printer, scanner, copier, and fax into a single machine Answer: A, B, D, E, C

Diff: 2

Technology In Action, Sound Bytes, 14e (Evans et al.) Chapter 2 Sound Bytes: Binary Numbers Interactive

A binary digit is referred to as a ______.
 A) bit
 B) byte
 C) microbit
 D) character
 Answer: A
 Diff: 1
 2) Which of the following numbering systems is ordinarily used by people?
 A) Binary
 B) Octal
 C) Decimal
 D) Hexadecimal
 Answer: C
 Diff: 1

3) Hexadecimal represents numbers using which base? A) 2

A) 2
B) 8
C) 10
D) 16

Answer: D Diff: 2

4) In the RGB system, when all three component colors are set to zero, what is the result?
A) The light for each color is turned on.
B) The decimal and hexadecimal values differ.
C) The resulting color is pitch black.
D) The resulting color is white.
Answer: C
Diff: 3

5) How many colors are used in the RGB system?
A) 2
B) 3
C) 16
D) 255
Answer: B

Diff: 2

6) A single hexadecimal number is represented by _____ digits in the binary numbering system. A) 2 **B**) 4 C) 8 D) 16 Answer: B Diff: 3 7) The _____ numbering system uses base 2. Answer: binary Diff: 1 8) When storing information in a computer, the binary numbering system uses a(n) ______ to represent an on switch. Answer: 1, one Diff: 1 9) When storing information in a computer, the binary numbering system uses a(n) ______ to represent an off switch. Answer: 0. zero Diff: 1 10) For each numbering base system, the far right always has a place value of _____. Answer: 1. one. ones Diff: 1 11) ______ numbers are used in place of binary numbers because binary numbers are difficult to read. Answer: Hexadecimal, Decimal Diff: 2 12) In the RGB system, each color can have a value from 0 to . Answer: 255, two hundred fifty-five Diff: 3 13) In the hexadecimal numbering system, each place value digit is ______ times greater than the digit to its right. Answer: 16, sixteen Diff: 2 14) In the binary numbering system, each place value digit can have _____ possible values. Answer: 2. two Diff: 1

15) In the ______ numbering system, each place value digit is ten times greater than the digit to its right.Answer: decimalDiff: 1

16) Computers store information in _____ (Base 2), which is difficult, if not impossible for humans to read.Answer: binaryDiff: 1

17) The ______ system uses combinations of red, green and blue light to display a full spectrum of colors.Answer: RGBDiff: 1

- 18) Match the following terms to their meaning:
- I. binary
- II. hexadecimal
- III. decimal
- IV. RGB
- V. base
- A. number that represents the value of each digit
- B. numbering system that uses 0s and 1s
- C. coding system for displaying colors on a computer screen
- D. people normally use this numbering system
- E. numbering system that uses base 16

Answer: B, E, D, C, A Diff: 2

Technology In Action, Sound Bytes, 14e (Evans et al.) Chapter 2 Sound Bytes: Smartphones Are Really Smart

1) The two major mobile operating systems on the market are ______ and Android. A) PrimOS B) Windows C) iOS D) Palm Answer: C Diff: 3 2) The Android smartphone operating system was developed by _____. A) Samsung B) Apple C) Intel D) Google Answer: D Diff: 2 3) Smartphones store their operating system software in _____. A) ROM B) RAM C) SD cards D) micro SD cards Answer: A Diff: 2 4) Smartphones include all of the following EXCEPT _____. A) a CPU B) a mouse C) storage capabilities D) ports Answer: B Diff: 1 5) Some smartphones support additional memory through ______. A) micro SD flash cards B) operating system swap files C) Global Positioning System (GPS) D) Bluetooth connectivity Answer: A Diff: 2

6) _____ measure the amount of movement in any direction to detect shaking and rotation. A) Synchronizers **B)** Accelerometers C) Proximity sensors D) GPS Answer: B Diff: 2 7) Who built and operates the Global Positioning System? A) NASA B) UN C) U.S. Department of Defense D) DARPA Answer: C Diff: 3 8) Many full-featured smartphones support additional memory through micro ______ flash cards. Answer: SD Diff: 2 9) Using ______, a smartphone can connect to an automobile audio/control system. Answer: Bluetooth Diff: 1 10) Google Assistant and Apple's Siri use _____ to assist smartphone users. Answer: voice recognition Diff: 2 11) A(n) _____ measures the amount of movement in any direction so that they can detect shaking or rotation. Answer: accelerometer Diff: 2 12) Smartphones come with ______ screens in a variety of resolutions. Answer: OLED Diff: 2 13) Smartphones are small fully functional computers. Answer: TRUE Diff: 1 14) Android devices do NOT support voice recognition. Answer: FALSE Diff: 1

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15) Apple's iPhone series does NOT allow you to add any memory.Answer: TRUEDiff: 2

- 16) Match each of the following terms to its description:
- I. OLED
- II. 4G
- III. GPS
- IV. stylus
- V. Siri
- A. powerful navigational system
- B. cellular network
- C. screen type used by smartphones
- D. Apple's artificial intelligent assistant
- E. pointing device

Answer: C, B, A, E, D Diff: 3