

# CS100 REVIEW QUESTIONS CH 1

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## CHAPTER 1

- 1) Which of the following is a popular search engine?
- 2) Which of the following global issues is/are being influenced by the use of information technology?
- 3) The methods of collecting evidence from computer systems and networks are called computer \_\_\_\_
- 4) Which of the following societal issues is affected by information technology today?
- 5) Which of the following career options can benefit from a sound understanding of information technology?
- 6) What is the \_digital divide\_?
- 7) Which of the following technologies allows retailers to adjust their product displays to the buying patterns of individuals?
- 8) \_Crowdfunding\_ refers to
- 9) Why are social media viewed as influencing political matters today?
- 10) What is meant by \_spam\_ in information technology?
- 11) What is \_Skype\_?

# CS100 REVIEW QUESTIONS CH 2

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## CHAPTER 2

- 1) How many gigabytes are there in a petabyte?
- 2) How many bits are there in a byte?
- 3) How many bytes are there in a kilobyte?
- 4) What is/are (an)other name(s) for a flash drive?
- 5) Which of the following is an optical storage device?
- 6) What does the abbreviation ROM stand for in information technology?
- 7) Which of the following can be represented and stored in today's computing architectures by a single bit?
- 8) How many megabytes are there in a gigabyte?
- 9) Windows, Linux, iOS and Android are all
- 10) What unit is typically used to describe the speed of a modern processor?
- 11) Which of the following ports is used to connect a high-definition screen to your computer?
- 12) Some users are storing information on an Internet-accessible service that allows access by any registered device. This technology is commonly referred to as \_\_\_\_ computing
- 13) If you don't have enough ports on your computer to connect all your devices, you can use
- 14) Many personal computers today include up to \_\_\_\_ of disk storage.
- 15) Modern computers typically have several CPUs running concurrently and sharing the computational load. These CPUs are called
- 16) What does the abbreviation CPU stand for in information technology?
- 17) How many kilobytes are there in a megabyte?
- 18) The ideal position for a monitor is about
- 19) Which of the following printer technologies can produce the highest resolution and the fastest output?
- 20) Which of the following usually shows the fastest access speed?
- 21) Which type of display is the most recent development?
- 22) A computer system that fills a room and is used concurrently by up to 100,000 users is a
- 23) Outlook, Photoshop, Word, and Excel are all
- 24) A computer especially designed for ultra-rapid computations is a
- 25) Which of the following is used to describe an input-output port?
- 26) Dvorak is a word used to identify a type of
- 27) Where is information stored for immediate access by the CPU during the boot process?
- 28) Which of the following screen resolutions produces the crispest images?
- 29) What does the abbreviation RAM stand for in information technology?
- 30) How do some developers now create prosthetic limbs quickly and less expensively?

# CS100 REVIEW QUESTIONS CH 3

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## CHAPTER 3

- 1) What was the acronym for the earliest form of the Internet?
- 2) The punch cards invented by Herman Hollerith were first applied to
- 3) One of the earliest digital computers was developed for the US Navy and finished in 1944. This was the
- 4) If you use your employer's email system to send and receive messages, how much privacy protection should you expect from your employer?
- 5) The type of computer that provides content for people using the WWW is called a
- 6) What was \_ENIAC\_?
- 7) Computers used by people to access content on the WWW are called
- 8) A user posts her commentary or other forms of information on a Webpage that she updates regularly using a program like WordPress. This form of communication can be called a
- 9) When you send a message to someone using \_name@gmail.com\_ , you are using
- 10) When was the networking system we now call the Internet developed?
- 11) Who were the founders of Apple Computing?
- 12) What is the fundamental distinction between Web 2.0 and the original WWW?
- 13) Who were the founders of Microsoft?
- 14) How can one be informed of additions to a favorite show's recordings online?
- 15) Search engines track down linkages on the World Wide Web using programs called
- 16) Current research and development aimed at integrating artificial intelligence into the Web for a more responsive human-device interface is being called
- 17) What is the name of the type of program that accesses and interprets data distributed through the WWW?
- 18) Which of the following is what we call the (usually underlined) text that brings us to a new part of a Web or of a Website (or even to a new part of a document such as PDF file or DOCX file)?
- 19) The mechanical calculator invented in 1642 was the
- 20) What was \_UNIVAC\_?
- 21) When was the World Wide Web put into operation?
- 22) What does the acronym GUI stand for in information technology?
- 23) Which of the following is/are (a) common Web browser(s)?
- 24) What does the acronym WYSIWYG stand for in information technology?
- 25) The display of page names shown at the top of a Web browser window that indicates how you arrived at the current Web page is called a
- 26) Someone uses a program to send typed messages or files directly to the computer of a correspondent using the same program. These messages are received within a fraction of a second and appear on the recipient's screen immediately for possible response. This is a description of
- 27) If you save a URL in your browser, you have just created at
- 28) What does the acronym BASIC refer to in information technology?

# CS100 REVIEW QUESTIONS CH 3

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- 29) When was the IBM PC put on the market?
- 30) Functions like AND, OR, and NOT that help refine searches in search engines online are called
- 31) What is generally considered the first word-processing program for personal computers?
- 32) Which were the two competing operating systems for non-Apple PCs at the dawn of the age of the personal computer?
- 33) The most popular site today for low-cost retail sales is
- 34) The programmable weaving machine that used punched paper cards and was invented at the end of the 18th century was called the
- 35) Every time you connect your computer to the Internet, you are assigned an \_\_\_\_ address
- 36) What function does PayPal play?
- 37) What is generally considered the first spreadsheet program for personal computers?
- 38) Which of the following statements is/are correct?
- 39) Why do many professors forbid the use of Wikipedia as a primary reference in project reports?
- 40) One of the methods for easily sharing files with colleagues is
- 41) Which of the following was the first personal computer put on the market?
- 42) If you mark a Webpage of interest by storing the URL in a social networking site such as Facebook, the process is called
- 43) When was the Apple II computer put on the market?
- 44) Which of the following is the most popular search engine in the world?
- 45) What is the acronym for the address of a Web page?
- 46) A news program posts recorded versions of interviews or entire shows on the Web. These recordings are called
- 47) A group of collaborators update each other's postings on a shared Website to provide up-to-date, accurate reference material. This type of system is called a

# CS100 REVIEW QUESTIONS CH 4

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## CHAPTER 4

- 1) In Microsoft Word, the REFERENCES tab includes (a) function(s) for
- 2) What's a mirror site?
- 3) In which category of software does a utility program such as a file-indexing service fit?
- 4) Which of the following is an example of a real-time collaboration tool?
- 5) What's a EULA?
- 6) Which of the following is/are (a) database application(s)?
- 7) If you store files in a cloud-computing system such as Dropbox, which of the following is the recommended approach to file management?
- 8) Which of the following is an example of a desktop publishing software package?
- 9) In which category of software does an operating system such as Windows fit?
- 10) Which type of software installation option generally loads the most commonly used functions and options for an application?
- 11) In which category of software does an accounting program such as Quicken fit?
- 12) What does CAD mean in discussions of information technology?
- 13) What is a \_QR\_ in discussions of m-commerce?
- 14) Which of the following types of application lets you handle document writing and formatting functions most easily?
- 15) In which category of software does a spreadsheet program such as Excel fit?
- 16) Which of the following is an example of m-commerce?
- 17) Which of the following is/are (a) presentation application(s)?
- 18) If a friend of yours has paid the copyright owner of a software package for an installation disk or file for this copyrighted software that she is currently using after agreeing to a single-use end-user license agreement, can you legally and ethically borrow her installation materials to install that software on your own computer?
- 19) Which of the following types of application lets you create slides for lectures most easily?
- 20) What does ERP mean in discussions of information technology?
- 21) Which of the following software packages helps you edit, share and organize your digital images?
- 22) Which of the following types of application lets you handle numerical functions most easily?
- 23) Which of the following is/are (a) word-processing application(s)?
- 24) Where can you buy low-cost, legal licenses to many commercial software packages specifically priced for students?
- 25) Duolingo is maintained by thousands of volunteers and doesn't cost anything to use. In which category of software does DuoLingo fit?
- 26) What does the acronym \_SaaS\_ stand for in information technology?
- 27) Which of the following is an example of a bundled software package?
- 28) In which category of software does Microsoft Word fit?
- 29) You are preparing a 48 page newsletter with text and illustrations in a wide variety of fonts and page layouts. You should ideally be using a \_\_\_\_ package

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- 30) Which of the following is/are (a) spreadsheet application(s)?
- 31) What does CRM mean in discussions of information technology?
- 32) A business uses a program to store, retrieve, update and report on extensive information about customers, suppliers, prices, parts, and inventory locations. The type of software they are using is best called a

# CS100 REVIEW QUESTIONS CH 5

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## CHAPTER 5

- 1) What is the meaning of \_PnP\_ in information technology?
- 2) What does the acronym API mean in information technology?
- 3) Which system of ethics is based on the concepts that G-d sets moral standards and that ethics consists of following G-d's law?
- 4) How do current systems primarily manage saturation of RAM?
- 5) When you delete a file on a Windows system or on a Mac computer, the deleted file is usually stored in
- 6) What is the second phase during a personal computer's power-up?
- 7) Which type of OS is most widely used today for desktop and laptop computers?
- 8) If you want a complete list of the files in a folder on a Windows machine to show filename, type, size, and date last modified, which of the following options would be most useful?
- 9) What is the first thing that happens upon powering up a computer in the sequence of startup operations?
- 10) Is it possible to behave ethically yet illegally?
- 11) Which of the following methods is the usual approach to reducing the size of a file?
- 12) Which system of ethics is based on the idea that there are no universal moral truths and that cultural tastes and habits are the foundation of all ethical judgement?
- 13) Which of the following is/are (a) reasonable recommendation for protecting yourself online?
- 14) What does RTOS refer to in information technology?
- 15) What is the role of the \_FAT\_ in operating systems?
- 16) What is the name of the feature available starting with Windows 8 that allows one to diagnose and repair system problems?
- 17) What is the file extension created by default using current versions of Microsoft Word?
- 18) What does the acronym BIOS mean in information technology?
- 19) In the file called this-is-a-sample.xlsx, what is the file extension?
- 20) If you have deleted a file on a Windows or Mac system, usually the file is
- 21) Which system of ethics is based on the concepts that duties and rights that are applied to everyone should determine our behavior?
- 22) What is \_RAM\_ in discussions of computer technology?
- 23) What is the \_FAT\_ in discussions of operating systems?
- 24) What is the file extension created by default using current versions of Microsoft PowerPoint?
- 25) What is the type of operating system that runs cars, manufacturing systems, electric generation plants and robotic cameras?
- 26) Which of the following operating systems was developed around 1970?
- 27) What is thought to be the primary reason that Windows and Mac OS are more popular than freeware such as open-source versions of Linux?
- 28) What is the fourth phase during a personal computer's power-up?
- 29) What is the file extension created by default when constructing a page for a Website?
- 30) Which of the following is the most widely used OS for smartphones and tablets?

# CS100 REVIEW QUESTIONS CH 5

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| <p>31) Which of the following is/are (a) system of ethics?</p> <p>32) What is a folder in discussions of computers?</p> <p>33) What's the obvious first step if you find your keyboard, trackball, touchpad or mouse not registering or working on your computer?</p> <p>34) What is the file extension created by default using current versions of Adobe Acrobat?</p> <p>35) What is the name of the Windows utility that allows you to start your computer by loading an older version of your registry?</p> <p>36) What is the label properly applied to people who report unethical or illegal behavior in the organization where they study or work?</p> <p>37) In Windows, what is the tool that shows you all processes currently loaded by the operating system?</p> <p>38) The string consisting of the chain of folders showing exactly where a file is stored on a computer is called a</p> <p>39) If you empty the file-deletion receptacles on a Windows or Mac system, you</p> <p>40) Which system of ethics is based on the concepts that consequences are the only basis for determining ethical choices and that maximizing the common good is a primary purpose of ethics?</p> | <p>41) What's the difference between a folder and a library in Windows?</p> <p>42) What is the third phase during a personal computer's power-up?</p> <p>43) Which of the following is a frequently used file extension for image files on Windows systems?</p> <p>44) What is the best definition of <code>_interrupt_</code> in the following list?</p> <p>45) What is the term used for a program that allows specific hardware devices to be controlled by the operating system?</p> <p>46) What is the usual function of the <code>_spooler_</code>?</p> <p>47) When something is printing on your printer and you send another document to that printer, where does the new document get placed while waiting for the first document to finish printing?</p> <p>48) If you are intending to examine your image files on a Windows system, which of the following is the best way to see them in a group with as much details as possible (but without opening each file)?</p> <p>49) What is the value of the Last Known Good Configuration data in Windows?</p> <p>50) What is the file extension created by default using current versions of Microsoft Excel?</p> |
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# CS100 REVIEW QUESTIONS CH 6

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## CHAPTER 6

- 1) Which type of optical disk has an approximate storage capacity of 4.7 GB (single layer disk) or 8.5 GB (double-layer disk)?
- 2) What is the best approximation in the following list to the largest capacity currently available for SSDs that can be placed inside a personal computer?
- 3) What is the \_Raspberry Pi\_?
- 4) What is the minimum RAM capacity (orders of magnitude approximations) you should expect in a new computer today?
- 5) What type of storage does RAM provide?
- 6) Which of the following companies has created an 8-channel sound system for surround sound?
- 7) Two identical HDDs are combined so that data written to one of the drives are mirrored immediately to the other drive to ensure resistance to drive failure. This is which type of arrangement?
- 8) Which type of optical disk has an approximate storage capacity of 700 MB?
- 9) What is the term applied to the time from completion of head placement on the correct track of a HDD and the time to spin to the start of the correct sector?
- 10) In discussions of IT, what is \_Thunderbolt\_?
- 11) What does SSD stand for in the vocabulary of computer components?
- 12) On a Windows system, how can you find out what type of CPU you are using?
- 13) What does the acronym RAID mean in computer technology?
- 14) The power and speed of computing technology of a given cost doubles every 12 to 18 months. This generalization is called \_\_\_\_ law
- 15) What does the acronym GPU stand for in discussions of computer elements?
- 16) Which video-card maker is reported to support up to six simultaneous displays on a single card?
- 17) Which of the following steps is recommended for maintaining or improving system reliability?
- 18) Which CPU is likely to be fastest among the options shown assuming everything else is held constant?
- 19) How are data written to an optical disk?
- 20) Which statement is correct?
- 21) Which of the following is/are (a) factor(s) that can differ between or among CPUs?
- 22) Which of the following periods is the best estimate of how long a new computer will continue to be useful to you?
- 23) What's the approximate ratio of I/O speed for RAM versus HDD?
- 24) Two identical HDDS are combined so that data are alternately written to one drive and then immediately to the other to speed I/O. This is which type of arrangement?
- 25) Which of the following is the most reasonable assertion?
- 26) Which of these types of computer is likely to be the least expensive for the same amount of power and number of features?
- 27) Which type of optical disk has an approximate storage capacity of 25 GB (single layer disk) or 50 GB (double-layer disk)?
- 28) How do current systems manage to handle the high computational loads from modern video games?

# CS100 REVIEW QUESTIONS CH 6

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| <p>29) Approximately what is the access time for today's hard disk drives?</p> <p>30) What's the approximate maximum RAM capacity of a computer running 64-bit Windows?</p> <p>31) What are the top two video-card makers today?</p> <p>32) What do we call pushing the clock speed to be faster than the manufacturer's recommendation?</p> <p>33) When reading your CPU usage graph, what level of usage over a period of minute of work suggests that you could benefit from a CPU upgrade?</p> <p>34) What is the term applied to the time from initiation of a read or write operation on a HDD and the completion of head movement to the correct track?</p> <p>35) A specific CPU begins executing the next instruction before the previous instruction has been completed. This technique is called</p> | <p>36) What is the typical clock speed of today's personal computer CPUs?</p> <p>37) The cost of computing technology of a given performance or capacity falls by about 50% every 12 to 18 months. This generalization is called ____ law</p> <p>38) What is the most popular current rotational speed of today's HDDs?</p> <p>39) CPUs have memory that reads and writes data faster than normal RAM. This kind of memory is called</p> <p>40) What is the best approximation in the following list to largest storage capacity currently available for HDDs that can be placed inside a personal computer?</p> <p>41) Roughly what is the ratio of access times for HDD compared to SSD?</p> <p>42) How can we combine two disk drives so they act as a single drive?</p> <p>43) What is a head crash in computing terms?</p> <p>44) How should you dispose of an old computer?</p> |
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# CS100 REVIEW QUESTIONS CH 7

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## CHAPTER 7

- 1) A network consists of independently-managed computers and peripherals that may be scattered around the world yet be able to share files according to rules defined on each source computer. This kind of network is a
- 2) Computationally intense applications such as computer simulations, video production and graphics processing benefit from running on what are properly known as
- 3) The AirPort Time Capsule allows high-capacity data storage to be shared throughout a local network. This kind of system is called
- 4) What is throughput?
- 5) The ALU executes the third phase of CPU processing. What does ALU mean?
- 6) What is the binary representation of the decimal number 10?
- 7) Which of the following is/are (a) kind of operation that the ALU performs?
- 8) Almost all components of today's networks (e.g., desktop computers, laptop computers, tablets, printers...) include an integrated network adapter known as a
- 9) Which of the following is a mobile broadband network?
- 10) Which of the following sites is recommended in your text for evaluating your bandwidth?
- 11) What are the two most recent high-performance processors that have been put on the market?
- 12) Which of the following devices allows you to stream data from the Internet directly onto a TV screen even if that TV is not a smart device?
- 13) What does \_HAN\_ signify in discussions of telecommunications?
- 14) Which type of network is the following? It is used in a home to connect all types of devices such as computer, printers, screens and so on.
- 15) What does the acronym IoT stand for in computing discussions?
- 16) Each element of a computer network is called a
- 17) Why do modern processor chips have so many types of memory available near the CPU?
- 18) The IEEE floating-point standard puts the \_\_\_\_ in the 10th through 32nd bits of the stored number.
- 19) Which type of network is the following? It is an interconnection of devices in a small area such as a building or a campus.
- 20) Which of the following is a WiFi sharing service in which you earn bandwidth the more you share the service?
- 21) The Wireless fidelity (WiFi) network complies with IEEE standard
- 22) Which of the following steps is/are recommended to secure your home wireless network?
- 23) One of the ways CPUs can execute even faster is by starting the next instruction before the previous one has finished. This technique is called
- 24) What is the hexadecimal representation of the decimal number 19?
- 25) A typical device for connecting to a broadband Internet service provider is called the
- 26) Which type of network is the following? It is a network providing services to large cities or districts for residents and tourists using tools such as WiMAX.

# CS100 REVIEW QUESTIONS CH 7

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- 27) The most popular transmission medium for wired Ethernet networks is
- 28) To avoid having to read and interpret binary sequences for every command to the CPU, early programmers developed the second generation of programming languages which is called
- 29) What does \_MAN\_ signify in discussions of telecommunications?
- 30) Symbols from the different alphabets of the world are stored in computer memory in compliance with the \_\_\_\_ standard.
- 31) A \_\_\_\_ transfers data packets between or among interconnected nodes on a single network such as a home network.
- 32) What does the acronym ASCII stand for in computer science?
- 33) The set of commands that any specific CPU can execute is called the
- 34) What does \_WAN\_ signify in discussions of telecommunications?
- 35) Most computers today use \_\_\_\_ to store each character or letter as an 8-bit code (a byte).
- 36) What do we call a source that allows a wireless connection in such places as libraries and coffee shops?
- 37) Most of the home and corporate wired networks of today use the \_\_\_\_ protocol.
- 38) The approximate size of level 2 cache memory on today's chips is usually measured in
- 39) What determines how often the CPU changes state?
- 40) The IEEE floating-point standard puts the \_\_\_\_ in the first bit of the stored number.
- 41) The approximate size of level 3 cache memory on chips that use this type of cache is usually measured in
- 42) What's the usual approximate speed at which a modern computer moves from step to step in executing code?
- 43) What part of a modern computer chip coordinates the switch settings in the CPU itself as code is executed?
- 44) Which of the following instructions in an assembler?
- 45) Dropbox, Google Drive, Microsoft OneDrive, Apple iCloud and Amazon Cloud Drive are all examples of
- 46) When one launches execution of a program, the system first copies the program code from \_\_\_\_ to \_\_\_\_?
- 47) What is the meaning of the acronym \_NIC\_ in computer technology?
- 48) How fast can DSL Internet services transmit data?
- 49) Choose the best available completion for this sentence: Current technology offers ordinary users (not supercomputer users!) choices of the number of cores in their processors ranging from one to \_\_\_\_
- 50) If you are running a 1 Gbps Ethernet network, you should install which type of cable?
- 51) What is a recommended solution if you run out of ports on your router?
- 52) What is the name of a device that amplifies a wireless signal to extend it to part of the building that may have poor connectivity?
- 53) What does the acronym NAS refer to in discussions of computing?
- 54) What does \_LAN\_ signify in discussions of telecommunications?
- 55) Which type of network is the following? It covers large areas – even the entire planet – by interconnecting other networks.

# CS100 REVIEW QUESTIONS CH 7

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| <p>56) A home user hooks up to her Internet service provider using a network interface that supports a maximum throughput of about 9 Kbps. This service is most likely to be a ____ connection.</p> <p>57) What is the decimal representation of the binary number 1111?</p> <p>58) The usual bandwidth of network interface cards on home and office personal computers for wired networking is</p> <p>59) The lowest level of computer language – the first one historically developed is</p> <p>60) The IEEE floating-point standard puts the ____ in the second through ninth bits of the stored number.</p> <p>61) How fast can cable Internet services transmit data?</p> <p>62) The approximate size of level 1 cache memory on today's chips is usually measured in</p> <p>63) If you can't obtain dial-up, cable, wireless or DSL Internet service, which of the following options is a good next step for your inquiries?</p> <p>64) What is the approximate maximum bandwidth of a 4G data connection?</p> <p>65) The IEEE floating-point standard uses how many bits to represent numbers?</p> <p>66) Your neighbor discovers that he can access your home Internet service by secretly using your wireless signal without telling you about it. This neighbor's criminal act is called</p> <p>67) What does DSL stand for in telecommunications discussions?</p> | <p>68) What does the acronym ANSI stand for in information technology?</p> <p>69) How fast can fiber-optic Internet services transmit data?</p> <p>70) What does the acronym IEEE stand for in information technology?</p> <p>71) What is _bandwidth_?</p> <p>72) A home user hooks up to his Internet service provider using a network interface that supports a maximum throughput of about 15 Mbps. This service is most likely to be a ____ connection.</p> <p>73) The second stage in fetching program code so it can be executed by the CPU is to copy the instructions from ____ to ____.</p> <p>74) The connectors on Ethernet twisted-pair cables conform to standard</p> <p>75) A ____ transfers data packets between or among interconnected networks such as the Internet.</p> <p>76) If you are running a 10 Gbps Ethernet network, you should install which type of cable?</p> <p>77) What is the fundamental element that all nodes must include for connection to any modern computer network?</p> <p>78) Which type of network is the following? It is used for communications close to one person (e.g., smartphones, tablets etc.) using Bluetooth or WiFi.</p> <p>79) In general, which of the following provides the highest transmission speed?</p> <p>80) What does _PAN_ signify in discussions of telecommunications?</p> |
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# CS100 REVIEW QUESTIONS CH 8

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## CHAPTER 8

- 1) Which of the following pixel densities is the highest offered by HDTV?
- 2) Should you install an antivirus app on your smartphone?
- 3) How do signals from your cell phone reach the cell-phone provider's network?
- 4) Two friends, one in Australia and one in Vermont, regularly have free video calls to each other on their computers using their Internet connections, some software, and their computer microphones and cameras. Which of the following software packages are the most likely using?
- 5) What is the most popular software for VoIP?
- 6) Which of the following is an operating system used on today's smartphones?
- 7) What of the following is one of the Apple proprietary file formats for digital video?
- 8) Creative Commons provides a notification system about the kind of uses you wish to permit for your own creative work. The licensing plans are part of the \_\_\_\_ system.
- 9) What is a current application of NFC in Japan, Spain and Germany?
- 10) How can you synchronize your smartphone with your computer files without using a USB cable?
- 11) Which of the following is an example of a digital medium?
- 12) Which of the following image ratios is characteristic of HDTV?
- 13) The use of a single device (e.g., a smartphone) to provide access to multiple information channels (e.g., music, telephony, social media) is referred to as
- 14) Which wireless Internet standard transmits data to and from your smartphone at a maximum of about 100 Mbps?
- 15) What is the extension of SMS that permits us to send photos and videos?
- 16) Which of the following is/are (a) current security application(s) of NFC?
- 17) How long can a single SMS messages be?
- 18) What is \_cellular\_ about cellular phones?
- 19) What is the technical term for a cellular-phone network communications tower?
- 20) What of the following is one of the Microsoft proprietary file formats for digital video?
- 21) Why do people often turn off their smartphone's wireless capability if they don't plan to connect to a WiFi network?
- 22) Which of the following is/are (a) file format(s) for digital music?
- 23) Which of the following is a common image-file format in use today?
- 24) What does the acronym DRM refer to in IT?
- 25) What is the relation between sampling rate and sound quality?
- 26) Two friends, one in Australia and one in Vermont, regularly have free video calls to each other on their computers using their Internet connections, some software, and their computer microphones and cameras. Which of the following communications protocols are the most likely using?
- 27) What was Napster?
- 28) Why might you reasonably decide to use a netbook instead of a tablet?
- 29) Which of the following services allows you to stream your selected music from a large library online?
- 30) What is/are (a) method(s) for reading eBooks?

# CS100 REVIEW QUESTIONS CH 8

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| <p>31) Which of the following is/are (a) commonly used as (an) input device(s) for today's smartphones?</p> <p>32) What does the acronym _NFC_ refer to in IT?</p> <p>33) Typically, you contract for a maximum total utilization of Internet connectivity per month from your smart-phone's service provider by choosing an appropriate agreement called the</p> <p>34) An author decides to forego publication of her work as a physical book and simply sells it as an etext via Amazon. What is this trend called?</p> <p>35) Which of the following is/are (an) example(s) of an analog medium?</p> <p>36) Which of the following is/are (a) service for viewing streaming video?</p> <p>37) What does the acronym _SMS_ stand for in discussions of cell phones?</p> <p>38) What is the key difference between an ultrabook and a laptop computer?</p> <p>39) What determines whether we can legitimately describe a phone as a smartphone?</p> <p>40) What is a consequence of using high compression on an image?</p> <p>41) One a cellular-phone signal has been captured by equipment on one of the big cell towers, where does the signal then go?</p> | <p>42) How can you use your smartphone to allow your computer to connect to the Internet if you have a data plan for the phone?</p> <p>43) Which of the following is the most often found file format used by the iTunes Store for pure sound recordings?</p> <p>44) What's the approximate range of NFC?</p> <p>45) Which wireless Internet standard transmits data to and from your smartphone at a maximum of about 4 Mbps?</p> <p>46) How can eBooks be shared?</p> <p>47) What does the acronym VoIP mean in telecommunications?</p> <p>48) Which of the following is a disadvantage of the Creative Commons' approach to controlling the uses of your intellectual property?</p> <p>49) What is the single most important defining difference between digital media and analog media?</p> <p>50) Which of the following is/are (a) commonly used as (an) output device(s) for today's smartphones?</p> <p>51) What's a _phablet_?</p> <p>52) How can an author publish an e-book?</p> <p>53) True or false: it is impossible to download any music for free.</p> |
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# CS100 REVIEW QUESTIONS CH 9

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## CHAPTER 9

- 1) In designing and implementing a corporate Website, which of the following jobs involves directing the strategy of their employers for visibility on such sites as Facebook?
- 2) What does a firewall do on a computer system?
- 3) What does \_DDoS\_ mean in security discussions?
- 4) A backup stores an exact copy of all the data on your hard disks. This is a(n) \_\_\_\_ backup.
- 5) Which of the following is approximately the current median annual pay in dollars of information security analysts in the US?
- 6) Which of the following qualify/qualifies as (a) cybercrime(s)?
- 7) Which of the following is approximately the current median annual pay in dollars of software developers in the US?
- 8) What kind of device helps protect your computing equipment against rapid changes in electrical voltage?
- 9) Sally is responsible for working closely with other employees in her company to determine their functional requirements and propose how to use new programs or changes in existing systems to meet their needs. She is most likely a
- 10) How do firewalls block access to specific logical ports on your computer?
- 11) Which of the following qualifies/qualify as a logic bomb?
- 12) Which logical port is used for accessing Web pages
- 13) Which of the following passwords is best?
- 14) What does \_DoS\_ refer to in information security discussions?
- 15) What is the recommended strategy for protecting electronic gear from damage during lightning storms?
- 16) Some computer experts break into a Web server and steal personally identifiable information about customers; they then post the data on the dark Web for other criminals to buy and use.
- 17) What are CAPTCHAs used for?
- 18) If you receive a phone call or an email claiming that your account with a specific organization has been compromised and asking you to confirm personal details, what should you do?
- 19) Which of the following companies make well-respected antivirus programs?
- 20) An email message asks you to log into a special Website for various convincing reasons. The link actually goes to a different Website from how it is labeled. This technique is called
- 21) Which of the following qualifies as a multipartite virus?
- 22) Which of the following qualifies as a polymorphic virus?
- 23) Which of the following qualifies/qualify as a worm?
- 24) What does Pendrivelinux provide?
- 25) A backup stores only files that have been modified since the last backup. This is a(n) \_\_\_\_ backup.
- 26) What is the recommended strategy for installing OS updates?
- 27) Which of the following illustrate(s) multi-factor authentication?
- 28) Why is the VeinID finger vein authentication technology thought to be more secure than ordinary biometric fingerprint scans?



# CS100 REVIEW QUESTIONS CH 9

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| <p>29) An expert tests the security of a system without receiving authorization to do so and tries to charge the victim organization to fix problems. What kind of hacker is he?</p> <p>30) A hacker is in a coffee shop and monitors the wireless network there using a tool to record customers' private information as the data flow through the network. The hacker is using a ____ program.</p> <p>31) Which of the following password rules is/are recommended for online safety?</p> <p>32) Criminals send email to specific executives in a targeted company to extract information using lies. This attack method is known as</p> <p>33) Which of the following personal information should you NOT post on public pages on the Web?</p> <p>34) What is a _bot_?</p> <p>35) What is a _cookie_ in discussions of computing technology?</p> <p>36) Which of the following qualifies/qualify as a virus?</p> <p>37) What do we call malware that transmits records of our activity online to servers that use the data for marketing</p> <p>38) Which of the following is approximately the current median annual pay in dollars of network and computer systems administrators in the US?</p> <p>39) In designing and implementing a corporate Website, which of the following jobs involves working with graphics designers and animators to create a look and feel for the site and make it easy to navigate?</p> <p>40) What is the term for software that helps locate a lost or stolen computer or phone?</p> <p>41) Which of the following crimes qualifies/qualify as identity theft?</p> | <p>42) Which of the following is/are (a) reasonable precaution(s) for resisting phishing and pharming?</p> <p>43) Approximately what was the approximate starting salary in dollars in April 2014 for computer science majors in the US?</p> <p>44) Which of the following qualifies as a malicious script?</p> <p>45) What is the function of Gibson Research Corporation's _ShieldsUP_?</p> <p>46) When you are working in a company or government agency, which of the following targets of surveillance may be authorized under your employment agreement?</p> <p>47) A hacker takes control of several thousand poorly protected home computers and uses them to launch DDoS attacks. Each compromised computer is known as a</p> <p>48) Which of the following qualifies/qualify as biometric authentication?</p> <p>49) In designing and implementing a corporate Website, which of the following jobs involves building the Web pages using tools like Dreamweaver, using content databases, and writing code in HTML, PHP, XML and so on?</p> <p>50) Which of the following is approximately the current median annual pay in dollars of computer systems analysts in the US?</p> <p>51) Which of the following assertions about IT workers is correct?</p> <p>52) Which of the following situations is properly described as offshoring?</p> <p>53) A malware program shows you threatening warnings about nonexistent virus infection on your computer and tells you to go to a special Website to download expensive software that actually does nothing for you. This scam is known as</p> <p>54) Which of the following is/are (a) typical function(s) of antivirus products?</p> |
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# CS100 REVIEW QUESTIONS CH 9

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- 55) Which of the following is approximately the current median annual pay in dollars of computer support specialists in the US?
- 56) What does the acronym \_NAT\_ stand for in discussions of computing?
- 57) What is a recommended method of protecting the data on your phone if it is stolen?
- 58) Nahalia is the person who makes sure that functional goals and program-development deadlines are met. She is responsible for managing costs and reporting to upper management. She is most likely a
- 59) A hacker installs a program on a target computer to record all the keystrokes of the user. This program is called a
- 60) How often should you allow your antivirus program to update itself?
- 61) What does the acronym \_CAPTCHA\_ mean?
- 62) Why are programs with hidden functions called Trojan horses?
- 63) What do we call unsolicited commercial email?
- 64) Approximately what is the range of expected percentage growth rates for the numbers of various IT jobs in the US comparing 2014 job numbers to those in 2022 according to the Bureau of Labor Statistics?
- 65) Which of the following qualifies as a macro virus?
- 66) What is a \_sniffer\_ in discussions of security?
- 67) Which of the following is approximately the current median annual pay in dollars of Web developers in the US?
- 68) A hacker uses a botnet to send 10,000 pings per second on a target system. This attack is best described as a \_\_\_\_ attack.
- 69) What do we call unsolicited instant messages?
- 70) Which of the following is/are ways of reducing spam in your email inbox?
- 71) You try to log on to your bank's Website but are diverted to a criminal organization's Website that looks very much like your bank's. You proceed to log in as usual without realizing that your ID and password have now been collected by the criminals. This technique is called
- 72) Which of the following qualifies/qualify as a time bomb?
- 73) Which of the following qualifies as an encryption virus?
- 74) Which of the following is a key practice for reducing the threat of online identity theft?
- 75) Which of the following is/are a legitimate anti-spyware program?
- 76) Which of the following qualifies as an email virus?
- 77) What is a \_virus signature\_?
- 78) Smart user Becky uses her antimalware suite to restrict outside access to her computer when she is using the Internet. Her antimalware is providing a
- 79) What is a technique that criminal hackers take advantage of using geotags in the pictures you post online?
- 80) Baseet decides what equipment is necessary for a new system under development. He also plans for disaster recovery and manages hardware and software maintenance. He is most likely a
- 81) Which of the following symptoms can indicate infection by malware?

# CS100 REVIEW QUESTIONS CH 9

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| <p>82) In designing and implementing a corporate Website, which of the following jobs involves helping customers or users of the Website by answering questions and funneling problems to technical support experts?</p> <p>83) What do we call malware that pops up unwanted advertisements on screen?</p> <p>84) What's the recommended MINIMUM frequency for running an antivirus system scan?</p> <p>85) How often should you permit your computer to check for patches from your operating-system vendor?</p> <p>86) An expert tests the security of a system after receiving authorization to do so. What kind of hacker is she?</p> <p>87) Which of the following qualifies as a boot-sector virus?</p> <p>88) Which of the following crimes qualifies/qualify as identity theft?</p> <p>89) What can you do if you have prepared for the possibility that your lost or stolen computer or phone is never recovered?</p> <p>90) What is the accepted recommendation about antivirus for smartphones?</p> <p>91) Rajiv is responsible for turning proposed designs for new systems or changes in existing systems into functioning code. He is most likely a</p> <p>92) Which of the following qualifies/qualify as a Trojan?</p> <p>93) What is a botnet?</p> | <p>94) What is/are (a) recommended method(s) for storing backups?</p> <p>95) Which of the following is approximately the current median annual pay in dollars of database administrators in the US?</p> <p>96) A caller pretends to be from your bank and asks you for personal information that can be used for identity theft. This technique is best described as</p> <p>97) Which of the following is approximately the current median annual pay in dollars of computer network architects in the US?</p> <p>98) Which of the following is a BAD IDEA (BAD BAD BAD) if you want to reduce the amount of spam you receive?</p> <p>99) What does NAT do to protect a system?</p> <p>100) Which of the following is approximately the current median annual pay in dollars of computer programmers in the US?</p> <p>101) Which of the following situations is properly described as outsourcing?</p> <p>102) What is the most frequent goal of hackers who try to capture personally identifiable information?</p> <p>103) What is the function of the Ironkey Personal Flash Drive?</p> <p>104) What does the term _bot_ stand for in discussions of security?</p> <p>105) What is a legitimate reason you should use private browsing when using a browser on a public computer (e.g., at an Internet bar or in a public library)?</p> |
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# CS100 REVIEW QUESTIONS CH 10

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## CHAPTER 10

- 1) Which of the following phases comes immediately before design in the SDLC?
- 2) What is an algorithm?
- 3) Which of the following is/are (a) stored set(s) of instructions in a programming language?
- 4) What do we call the rules for using a programming language?
- 5) What is the name for the set of tags that define the format of Web pages?
- 6) A software company sends out a tested version of their new product to customers who have volunteered to try it out and provide reports of bugs. This version of the software is called a
- 7) Which of the following programming languages is suitable for RAD?
- 8) When do data-flow diagrams come into play in the SDLC?
- 9) A programmer is designing a program to meet the specifications provided by the systems analysis team. He analyses all the categories of inputs and their interactions and designs the code so that all these categories can exchange data and transform them appropriately. This approach to program design is called
- 10) When is the program specification defined in the SDLC?
- 11) In general, if the fastest execution of program is an important goal, programmers will tend to choose a language that uses a(n)
- 12) If a class exists for calculating salaries and a new class derived from that one is created with additional features, the new class is known as the \_\_\_\_ class
- 13) This language was developed in the 1970s at AT&T Bell Labs and integrates not only high-level constructs such as loops but also provides direct access to low-level functions such as direct access to CPU registers. Which of the following languages best fits this description?
- 14) Which of the following is/are (a) necessary element(s) in a programming loop?
- 15) What does the acronym \_HTML\_ stand for in computing?
- 16) Which of the following is/are (a) data type(s) used in C++?
- 17) In standard flow charts for program development, what does the arrow shape mean?
- 18) A programmer has written code and is now finding and removing errors. This step in the life cycle of a program is called
- 19) What does \_JAD\_ refer to in discussions of computing?
- 20) Which of the following tools is/are used to generate HTML automatically based on a designer's input?
- 21) A decision point in an algorithm branches into two directions depending on a logical condition. This decision point is called a \_\_\_\_ decision
- 22) Object-oriented design has the advantage(s) of
- 23) In standard flow charts for program development, what does the oval shape mean?
- 24) What is a flowchart?
- 25) What is the C++ representation of a logical branch (e.g., do A if X is true and B if X is false)?
- 26) In standard flow charts for program development, what does the parallelogram shape mean?

# CS100 REVIEW QUESTIONS CH 10

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| <p>27) How does an IDE help programmers once they have finished entering and editing their new program code?</p> <p>28) What does RAD mean in programming?</p> <p>29) Which of the following errors qualifies/qualify as (a) runtime error(s)?</p> <p>30) Which of the following is/are (a) step(s) in the SDLC?</p> <p>31) In standard flow charts for program development, what does the diamond shape mean?</p> <p>32) What is a popular informal name for the SDLC?</p> <p>33) If a class exists for calculating salaries and a new class derived from that one is created with additional features, the original class is known as the ____ class</p> <p>34) In standard flow charts for program development, what does the rectangle shape mean?</p> <p>35) What is the function of a compiler in computing?</p> <p>36) A special programming tool translates source code into executable instructions that are then executed line by line. This tool is called a(n)</p> <p>37) What is/are (a) function(s) of the editor in an IDE while a programmer is entering code?</p> <p>38) A software company has sent out its newest version of its product to its clients. A few months later, it is ready with a collection of corrections to the code to help fix problems reported by the users. This set of fixes is called a</p> <p>39) In programming, what is an _IDE_?</p> <p>40) Which of the following phases comes immediately before testing &amp; installation in the SDLC?</p> | <p>41) What is the name of the programming language whose programs are called _applets_?</p> <p>42) Which of the following is the scripting language widely used to help design dynamic Web pages that interact with the viewer (e.g., allowing for checkboxes, drop-down lists and so on)?</p> <p>43) Even if you don't become a professional programmer, knowing a bit about programming can reasonably be expected to help you</p> <p>44) What's the key difference between C and C++ programming languages?</p> <p>45) Which of the following errors qualifies/qualify as (a) logical errors(?)</p> <p>46) In object-oriented design, a new version of an existing class can incorporate the characteristics of that original class. This phenomenon is known as</p> <p>47) In a software company writing code under contract or for profit, how does one normally move a program that has been thoroughly debugged into the next phase of testing?</p> <p>48) Testing plans in program development include</p> <p>49) What is the format used to facilitate data exchange between Web servers?</p> <p>50) What is the programming language especially written to help programmers writing applications for use under iOS and OS X?</p> <p>51) What is pseudocode?</p> <p>52) In object-oriented analysis, the units that interact are called</p> <p>53) Which of the following statements is/are correct?</p> <p>54) Which of the following steps is/are (a) part(s) of the program development lifecycle?</p> |
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# CS100 REVIEW QUESTIONS CH 10

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| <p>55) A logical structure in many programs consists of a set of instructions that are repeated until a defined condition is met. This structure is called a</p> <p>56) Where is the content for interactive Web pages usually stored?</p> <p>57) A programmer is designing a program to meet the specifications provided by the systems analysis team. She first breaks the assignment into general definitions of what each part of the code will do and then delves into each of those definitions to specify further details of the program. This approach to design is called</p> | <p>58) A programmer develops a prototype with some of the main functions of a new programming project as a first step to learning more about the user needs and responses. This approach is known as</p> <p>59) Which of the following is a widely used scripting language for building interactive Web pages?</p> <p>60) A programmer is trying to fix a bug by running the program under test with a tool that lets her stop the program at any step and examine or change the values of any variable. This tool is a</p> <p>61) What does _SDLC_ refer to in discussions of computing?</p> <p>62) What do we call the coding symbols that represent the fundamental actions available in the language (e.g., add, subtract, multiple, divide, etc.)?</p> |
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# CS100 REVIEW QUESTIONS CH 11

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## CHAPTER 11

- 1) Which of the following goals is/are typical of how businesses using data mining?
- 2) Where are metadata in a database stored?
- 3) What does the acronym SQL stand for in computing?
- 4) How do we control input of data into a database when the data have to be typed in?
- 5) What do we call a computer system designed to keep track of everyday business activities such as entering orders or creating invoices?
- 6) Which of the following is a key difference between Yelp and Angie's List?
- 7) What do we call an integrated system that provides immediate access to all aspects of the information need to run an organization efficiently and well?
- 8) What is Yelp (yelp.com)?
- 9) What is the name usually applied to the person who manages databases (e.g., increasing their size, changing their structure, etc.)?
- 10) Which of the following is/are (a) major operations of a DBMS?
- 11) A new kind of database stores data in the equivalent of cubes instead of in traditional flat tables. This kind of database is known as
- 12) Which of the following is/are (a) major benefit(s) of using databases instead of simple lists?
- 13) Name the following data-mining technique: determining which data classes can be related
- 14) What is the correct term in database terminology for a structured group of fields relating to a single logical target (e.g., all the unique personal information about student Bob K. Marley such as name, home address, etc.)?
- 15) What kind of database is the most commonly used today?
- 16) A list kept in a spreadsheet shows the courses that each student has completed to date. One of the student records shows a nonexistent course. What is the technical term to describe this kind of error?
- 17) Which of the following functions corresponds to a range check in a database input form?
- 18) Which of the following features is/are typical of database input forms?
- 19) In Excel, what function lets you check cells for compliance with particular criteria?
- 20) Which of the Microsoft Office tools is idea for handling data in single tables?
- 21) If you have data in an Excel spreadsheet and want to put the same data into a database, what is the best approach to transferring the data?
- 22) Name the following data-mining technique: assigning a value to data based on various criteria
- 23) In a database, every table must have at least one field that is unique for each record in the table; e.g., a table storing all the student information may have several John A. Smith records, but each of those would have a different Student ID. Such a unique field is a
- 24) What do we call the process of analyzing large amounts of data to identify trends or relationships that are new to us?
- 25) Which of the following constitutes a \_data breach\_?
- 26) A knowledge-based system includes probabilities in its algorithms for modeling specific aspects of reality. What kind of logic is it using?

# CS100 REVIEW QUESTIONS CH 11

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| <p>27) In Excel, what function puts a list in alphabetical order by a particular column?</p> <p>28) What do we call a computer system designed to provide managers with timely and accurate information so they can run their business efficiently?</p> <p>29) What do we call a computer system designed to improve communications within an organization and to help employees do their jobs well and efficiently?</p> <p>30) What do we call information about the data in a database (e.g., field name, data type, description, properties, size)?</p> <p>31) Which kind of processing is most suitable for providing information on the current top price bid for an article on an auction Website?</p> <p>32) What is the correct term for a collection of related data that can be stored, sorted, organized and queried using a special computer program?</p> <p>33) What is the technical term to describe discrepancies in the content of stored data that should be identical</p> <p>34) Which of the following functions is most suitable for batch processing?</p> <p>35) Which of the following is/are (an) examples of a detail report from an MIS?</p> <p>36) What do we call a computer system designed to help managers develop solutions to specific business problems such as designing good marketing strategies?</p> <p>37) Name the following data-mining technique: organizing data into similar subgroups without using predefined classes</p> <p>38) Which of the following is/are (an) examples of a summary report from an MIS?</p> <p>39) A database has a Student table with all the unique student information (StudentID -- the unique identifier, StudentName, StudentHomeAddress and so on) and a</p> | <p>StudentCourse table showing all the courses that the student has completed or is currently enrolled in (StudentID, CourseID, SemesterCode, FinalGrade and so on). The Course table uses CourseID as its unique identifier. In the StudentCourse table, what is/are the foreign key(s)?</p> <p>40) In SQL, how do we specify which variables to include in extracted records resulting from a query?</p> <p>41) Which of the following is/are (an) examples of an exception report from an MIS?</p> <p>42) In Excel, what function shows only certain records in a spreadsheet using particular criteria?</p> <p>43) What is the technical term to describe unnecessary duplication of data in lists?</p> <p>44) Which of the following options is the best of the labels for the following system: it uses extensive sources of information and algorithms that model how experts make decisions about a specific area such as determining current prices for a product or service.</p> <p>45) What do we call the organized collection of all the databases an organization needs to manage its business?</p> <p>46) Which of the following rules apply to defining field names in a database?</p> <p>47) What is Angie's List (<a href="http://angie.com">angie.com</a>)?</p> <p>48) Name the following data-mining technique: describing data so that managers can interpret the information in new and different ways</p> <p>49) The process of organizing data in a database to reduce data redundancy and making storage and access as efficient as possible is most professionally called</p> <p>50) What is the correct term in database terminology for a specific type of information (e.g., the last name of a person)?</p> |
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# CS100 REVIEW QUESTIONS CH 11

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| <p>51) What is Microsoft's office-support system?</p> <p>52) In SQL, how do we specify which tables to search to locate records resulting from a query?</p> <p>53) What is the technical name for the following function in a database system: creating and possibly storing a function to display and extract records that match selection criteria?</p> <p>54) What is the most widely used query language for databases today?</p> <p>55) Which of the following functions corresponds to a consistency check in a database input form?</p> <p>56) Which of the following questions is/are reasonable before agreeing to provide confidential, personally-identifiable information to anyone?</p> <p>57) Which of the following options is the best of the labels for the following system: it allows medical professionals to dictate patient reports and have their words correctly transcribed into electronic records for a hospital's medical information system; it also responds to questions from the medical staff such as requests for the correct dosage of a medication.</p> <p>58) Which of the following functions corresponds to a completeness check in a database input form?</p> <p>59) What happens if you define a field length that is too short for the data you have to enter?</p> <p>60) There are two tables in a college registrar's database that are related through use of the StudentID: Student and StudentCourse. There is exactly one record for each student in the Student table. However, any student will normally have one or more records in the StudentCourse table because each student usually has one or more courses on record. What kind of relationship exists</p> | <p>between the Student table and the StudentCourse table?</p> <p>61) A hospital database stores not only information about a patient but also the instructions used in computing the total costs of the patient's stay and printing the invoice. In addition, this hospital database stores X-ray images, videos of the patient's neuropsychological testing, and audio recordings of interactions with care-givers. What is the best description of the type of database in use at this hospital?</p> <p>62) Why would one choose to use a database instead of a list?</p> <p>63) What is the correct term in database terminology for a group of similar records relating to multiple subjects (e.g., all the records about the buildings on campus -- name, location, floorplan, etc.)?</p> <p>64) What are two pieces of information generally viewed as essential for criminals to engage in identity theft?</p> <p>65) In SQL, how do we specify which tables to connect to create the results of a query?</p> <p>66) Name the following data-mining technique: defining data classes to help spot trends and then applying the definitions to unclassified data</p> <p>67) A hardware-store chain has invested in a bit of artificial intelligence on its Website to provide immediate answers to natural-language queries from visitors. This kind of system is described as a(n)</p> <p>68) What is the process of ensuring that data entered into a field on a database input form meets specified guidelines or restrictions?</p> <p>69) In SQL, how do we specify which conditions to use to select records resulting from a query?</p> <p>70) What is the technical name for the following function in a database system: temporarily</p> |
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# CS100 REVIEW QUESTIONS CH 11

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displaying records that match selection criteria?

- 71) There are two tables in a college registrar's database that are related through use of the StudentID: Student and StudentLodging. There is exactly one record for each student in the Student table. Each student has one record in the StudentLodging table because

each student has only one location on record at any given time. What kind of relationship exists between the Student table and the StudentLodging table?

- 72) Which of the following functions is/are typically included in an OSS?
- 73) What is a DBMS in computer terminology?

# CS100 REVIEW QUESTIONS CH 12

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## CHAPTER 12

- 1) What are all the nodes of a star topology connected to?
- 2) Which layer in the OSI Model is responsible for the following functions: compressing and encrypting data?
- 3) The SpangleBangle Corporation has a Website, spanglebangle.com, which is supplied with dynamic data from a central server that provides data for PHP and other programs for dynamic Webpages. The server running the site is called a \_\_\_\_ server.
- 4) What do we call a private internal network used by an organization exclusively for stakeholders such as employees, students, or patients?
- 5) What is the most commonly used network topology today?
- 6) What does \_OSI\_ stand for in the phrase \_OSI Model\_?
- 7) Which of the following functions is/are (an) example(s) of practical applications of networking in an organization?
- 8) A network architect configures a server to be exclusively assigned to managing all the data output to paper for the corporation. What kind of server is this?
- 9) If a building is subject to very high levels of electromagnetic interference, which type of twisted-pair cable is recommended to maintain signal integrity?
- 10) Most networks require a user to show that (s)he is the authorized user of a specific identifier. We call this process
- 11) What is the correct term for a device which sends data to the correct nodes using the MAC addresses in the data packets?
- 12) Why are flash drives considered a serious threat to network security?
- 13) Which of the following functions is/are viewed as key advantages of networking in businesses?
- 14) Which layer in the OSI Model is responsible for the following functions: managing data communications between application programs and the network?
- 15) Which is/are the most common network topology/topologies?
- 16) Which layer in the OSI Model is responsible for the following functions: setting up a virtual connection between the sending and receiving devices?
- 17) A criminal-hacker organization steals the encrypted password hash file from a network server and then uses a botnet to test billions of alphanumeric sequences to find those that generate the encrypted password hashes. This process is an example of a \_\_\_\_ attack.
- 18) Why are P2P networks rarely used by larger organizations (say, bigger than a dozen workstations)?\
- 19) What do we call the physical or logical arrangement of computers, transmission media and other network components?
- 20) Which of the following is/are (a) layer(s) in the OSI Model?
- 21) What does \_VPN\_ mean in discussions of computing?
- 22) SpangleBangle Corporation of Tinytown, VT uses servers located in Los Angeles, CA and run by ElectroBoxPoppy for access not only by employees at headquarters but also by employees travelling around the world with their laptop computers and smartphones. Many necessary files for employee work are available through the ElectroBoxPoppy servers, which can be called \_\_\_\_ servers.

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- 23) What does the acronym \_NOS\_ stand for in discussions of data networks?
- 24) Which layer in the OSI Model is responsible for the following functions: transmitting data on the network connections (wired, wireless)?
- 25) Which of the following measures is/are recommended by the FTC for responding to a data breach?
- 26) What happens in a star network if two nodes begin transmitting signals concurrently?
- 27) What is the attribute of information described by the appropriate speed of access to data?
- 28) Which layer in the OSI Model is responsible for the following functions: creating packets and handling packet acknowledgement?
- 29) Which of the following factors is/are (a) source of threats to network security?
- 30) Which kind of network is the following: it has several central servers run by an IT department and all client systems (employee workstations) get their centralized data directly from the appropriate server.
- 31) Which of the following is/are (a) nearly universal function(s) of firewalls?
- 32) What do we call the network adapters for wireless networks?
- 33) Name the topology used a computer network in which all the computers are connected in sequence on a single cable
- 34) When groups of data packets are sent together as a unit to a specific MAC address, we call the group of packets a
- 35) What is the name of the type of data packet sent through a ring-topology network?
- 36) Which layer in the OSI Model is responsible for the following functions: assembling data into frames and addressing them?
- 37) In a bus topology, what is the function of the \_terminator\_?
- 38) Which network topology is interrupted if even a single node fails?
- 39) What does \_EDI\_ mean in discussions of computing?
- 40) What do we call the software that allows network adapters to run on a client or server?
- 41) Which of the following transmission media has the theoretically highest bandwidth?
- 42) When proper security measures are in place, it is difficult or impossible for anyone accessing information to deny having done so. What is this security objective called?
- 43) What does \_scalability\_ refer to in computing?
- 44) What is the unique address of every network adapter?
- 45) What is the correct term for the way we overcome the problems created by data collisions on networks?
- 46) At Wornich University, all students can access their own academic records on the Wanner Beb system. What kind of server supplies the data on Wanner Beb?
- 47) What is the term used for describing the correctness and completeness of data?
- 48) A network architect configures a server to be exclusively assigned to managing all the separate collections of data for the corporation. What kind of server is this?
- 49) The name for a network device that sends data between different networks is
- 50) What is the key mechanism used for VPNs?
- 51) What is the meaning of the acronym \_CSMA/CD\_ in network theory?
- 52) What is the purpose of using a VPN?

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| <p>53) What is the method used on all Ethernet networks for collision avoidance?</p> <p>54) A network architect configures a server to be exclusively assigned to managing all the programs used by employees of the corporation. What kind of server is this?</p> <p>55) Which of the following is/are (a) recommended security measure(s) relating to flash drives and USB disk drives?</p> <p>56) A network architect configures a server to be exclusively assigned to handling all the inbound and outbound email of the corporation. What kind of server is this?</p> <p>57) What do we call a secured set of pages accessible through the Internet that have access restricted to authorized users such as customers with their own logons?</p> <p>58) What do we call the limitation of access to information so that only appropriate people, processes or devices can use the data?</p> <p>59) Which layer in the OSI Model is responsible for the following functions: determining where to send packets on the network?</p> | <p>60) What is <u>tunneling</u> in discussions of networking?</p> <p>61) The name for a network device that sends data between different collision domains is</p> <p>62) CrunchleCorp has 1500 employees, all of which use thin clients to run Microsoft Windows 10. However, all 1500 Windows sessions are actually running on a massive array of servers and disk drives at HQ in Togo. This system is an example of using _____</p> <p>63) What kind of network is the following: data can reside on any of the workstations used by several hundred or thousand employees. Information is accessed by linking from the requesting computer to the source computer.</p> <p>64) Which of the following is/are (a) function(s) of network adapters?</p> <p>65) What does the acronym <u>MAC</u> mean in discussions of data networks?</p> <p>66) In a large, complex network such as one for a large corporation with many divisions, one can help avoid performance problems by breaking the network into two or more</p> |
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## CHAPTER 13

- 1) A program running on a Web server to provide dynamic content in a Web page is called a \_\_\_\_ program
- 2) How does a node in a TCP connection respond to the receipt of a new, readable packet?
- 3) What is the meaning of the acronym \_ASP\_ in discussions of the Web?
- 4) Which of the following is/are (a) key function(s) of CGI and ASP?
- 5) What is the main set of protocols used on the Internet?
- 6) If the sending node in a TCP connection receives a NAK, what does it do?
- 7) What does the acronym \_CSS\_ refer to in Web design?
- 8) What do we call HTML strings such as <b>, </b>, <i> and </i>?
- 9) Which of the following is a popular server-side interface?
- 10) What is the meaning of the acronym \_CGI\_ in discussions of the Web?
- 11) What has the response of the IETF been to IP address exhaustion?
- 12) What does the acronym \_TCP\_ mean in discussions of the Internet?
- 13) In the Internet domain name \_www.norwich.edu\_, what is the TLD?
- 14) Given that SMTP was originally designed solely for text messages, how do we currently attach binary files to email messages?
- 15) Who owns the Internet?
- 16) In the Internet domain name \_www.norwich.edu\_, what is the second-level domain?
- 17) What do we call the highest-bandwidth carriers that provide major transmission routes on the Internet?
- 18) In discussions of the Internet, what is the meaning of the acronym \_TLD\_?
- 19) How does a node in a TCP connection respond to the receipt of a new, unreadable packet?
- 20) What does the acronym \_TLS\_ stand for in communications?
- 21) What is the function of the DNS servers?
- 22) When we use the Internet, our data are broken into chunks which can travel independently through different routes from origin to destination. This approach to network resource sharing is called
- 23) TCP uses a three-way handshake to initiate a session. This kind of protocol is described as
- 24) Which of the following could be an IP address?
- 25) What does the acronym \_ICANN\_ stand for in discussions of the Internet?
- 26) How does a server assign a variable IP address to a computer joining its network?
- 27) How can you see the HTML underlying a formatted Web page?
- 28) What is the meaning of the acronym \_ISP\_ in discussions of the Internet?
- 29) Which organization is responsible for managing the Internet's domain name system and allocation of IP addresses?
- 30) You notice that your computer's IP address, assigned by your ISP, is different today from what it was yesterday. The ISP is using \_\_\_\_ addressing
- 31) What does the acronym \_IP\_ mean in discussions of the Internet?

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| <p>32) What part of the Internet determines where a packet will be sent?</p> <p>33) What does the acronym _DHCP_ mean in discussions of networking?</p> <p>34) What is the protocol used for managing email on the Internet?</p> <p>35) What is/are the primary advantage(s) of XML over HTML?</p> <p>36) What is the best way to change the formatting on all the Web pages on a Website so that a new font will be used?</p> <p>37) Approximately how fast is an OC-768 line?</p> <p>38) What do SSL and TLS provide?</p> <p>39) What does the acronym _DNS_ signify in discussions of the Internet?</p> <p>40) In HTML, what would be the effect of writing <code>&lt;b&gt;&lt;i&gt;Sample&lt;/i&gt;&lt;/b&gt;</code>?</p> <p>41) How do ISPs interconnect their networks?</p> <p>42) What is the meaning of the acronym _DHTML_?</p> <p>43) Approximately how fast is a T-3 line?</p> <p>44) A user generates a pair of keys; what is encrypted by one key can be decrypted only by the other key in the pair. This type of encryption is known as</p> <p>45) What is the network security protocol invoked by HTTPS?</p> <p>46) Which of the following is a well-known public-key encryption program?</p> <p>47) What does the acronym _HTTP_ stand for?</p> <p>48) What is the meaning of the acronym _MIME_ in discussions of the Internet?</p> | <p>49) A pair of users share a special alphanumeric sequence that allows content encrypted with that sequence to be decrypted by the other user using the same sequence. What kind of encryption system is being used here?</p> <p>50) When was email invented?</p> <p>51) What is/are the key purpose(s) of DHTML?</p> <p>52) What is/are (a) popular programming language used to create server-side programs?</p> <p>53) A criminal-hacker organization uses a group of several thousands volunteers running their own computers to help brute-force decrypt the encryption key being used by a government agency. This process is correctly described as</p> <p>54) What does the acronym _SMTP_ mean in discussions of the Internet?</p> <p>55) What special service are hushmail.com and comodo.com best known for?</p> <p>56) Which of the following transmission lines is the fastest in the list?</p> <p>57) What is a key difference between IPv4 and IPv6?</p> <p>58) What does the acronym _IXP_ mean in discussions of the Internet?</p> <p>59) How does MIME work?</p> <p>60) What does the acronym _SSL_ stand for in data communications?</p> <p>61) Which of the following types of information is/are included in Internet packets?</p> <p>62) Which of the following is/are (a) popular tool for client-side programming on the Web?</p> |
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