**Chapter 1**

**PG**

The \_\_\_\_\_\_\_\_\_\_\_\_ was developed as a substitute for the vacuum tube in 1948. Transistor

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ is a microprocessor used as a component of a larger system. embedded system

A personal computer designed to sit on a table for extended periods of time is a \_\_\_\_\_\_\_\_\_\_\_\_. desktop computer

\_\_\_\_\_\_\_\_\_\_\_\_ are superpowerful computers constructed out of thousands of microprocessors. Supercomputers

The most significant breakthrough in Internet software was the development of the \_\_\_\_\_\_\_\_\_\_\_. World Wide Web

The time period when most people earn their living working with words, numbers, and ideas is called the \_\_\_\_\_\_\_\_\_\_\_\_. information age

\_\_\_\_\_\_\_\_\_\_\_\_ are applications stored on the Web, providing access through multiple computers with Internet access. Web applications

External drives, keyboards, printers, scanners, and monitors are all examples of \_\_\_\_\_\_\_\_\_\_\_\_. Peripherals

A computer that gives other computers connected to the network access to data, programs, or other resources is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_. Server

Which of the following is the timeline for the creation of the World Wide Web (WWW) and the Internet? The Internet was created in the 1960s, and the WWW was created in the 1990s.

Which of the following is a type of silicon chip? Integrated circuit

Before microcomputers (PCs) became the norm, most information processing took place on which type of computer? Mainframe

A personal computer designed with portability in mind is called a \_\_\_\_\_\_\_\_\_\_\_\_. laptop computer

Two examples of Web 2.0 sites are \_\_\_\_\_\_\_\_\_\_\_. Facebook and MySpace

A change in thinking that results in a new way of seeing the world is a paradigm shift. True

In the industrial age, most people work in jobs that require working with words, numbers, and ideas instead of planting corn or making shoes. False

A branch of computer science that explores the use of computers in tasks requiring intelligence, imagination, and insight is called computer intelligence. False

The difference between the information technology "haves" and "have nots" is called the digital divide. True

Moore's law states that computer power doubles every 18 months. False

The first microprocessor was a single silicon chip that contained all of a computer's computational components. True

**Embedded system**  A microprocessor used as a component of a larger system

**Smart phone** Combines the functions of a phone, a camera, a PDA, a game machine, and a music/video player with Internet connectivity

**Laptop computer** A portable personal computer

**Peripheral**  An additional device, such as a keyboard, mouse, or monitor that is usually attached to a computer using cables

**Server**  Provides software, data, and other resources to other computers over a network

**Mainframe** A computer that uses a technique, called timeshare, to communicate with several users simultaneously.

**TTS**

mendatar

programs that serve as navigable windows into the web BROWSERS

a computer that provides other network-connected computers with access to data and programs SERVER

invented in 1948 as a substitute for the vacuum tube TRANSISTOR

a high-end desktop computer with massive computing power WORKSTATION

software programs that transform computers to supercomputers for particular needs APPLICATIONS

the nickname for san jose, california because dozens of semiconductor manufacturing companies were located there SILICONVALLEY

the age in which most people earn their living working with words, numbers, and ideas INFORMATION

no-frills notebook computer NETBOOK

menurun

the prediction that the number of transistors that can be packed into a silicon chip of the same price would double every two years MOORESLAW

the branch of computer science in which computers perform tasks that people, rather than machines, typically do ARITIFICIALINTELLIGENCE

the most current computing phase that started about 2005 COLLABORATIVE

links on web pages that connect pages HYPERTEXT

a hybrid of hardware and software that is immortalized on a silicon chip FIRMWARE

**Chapter 2**

**PG**

A gigabyte (GB) is equal to approximately \_\_\_\_\_\_\_\_\_\_\_\_. 1,000 megabytes (MB)

The \_\_\_\_\_\_\_\_\_\_\_\_ is the circuit board that contains a computer's CPU. Motherboard

Computer memory that stores programs and data that needs to be instantly accessible to the CPU is called random access memory (RAM)

The most widely used code that represents each letter, digit, and special character as a unique string of 8 bits is \_\_\_\_\_\_\_\_\_\_\_\_. ASCII

When software that is written for one processor works with another processor, it is considered \_\_\_\_\_\_\_\_\_\_\_\_. Compatible

The processor's \_\_\_\_\_\_\_\_\_\_\_\_ is the design that determines how the components of the CPU are put and work together on the chip. Architecture

Which of the following are common input devices? Keyboards and pointing devices

A single chip that contains multiple cores that run simultaneously is a(n) \_\_\_\_\_\_\_\_\_\_\_\_. multicore processor

The hardware component that executes the steps in a software program and contains the circuitry to perform instructions is called the \_\_\_\_\_\_\_\_\_\_\_\_. central processing unit (CPU)

\_\_\_\_\_\_\_\_\_\_\_\_ is used to store start-up instructions and other critical information for all modern computers. ROM

Because flash memory can keep its contents without a flow of electricity, it is said to be \_\_\_\_\_\_\_\_\_\_\_\_. nonvolatile

Which of the following is a special, low-energy type of RAM that can store small amounts of data for a long time using battery power? CMOS

For most computer memory, access time is measured in \_\_\_\_\_\_\_\_\_\_\_\_. Nanoseconds

PC cards and ExpressCards that can be inserted or removed from a computer's slot without powering down the system are called \_\_\_\_\_\_\_\_\_\_. hot-swappable

A petabyte is equivalent to 1,024 terabytes. True

The most widely used computer code, ASCII, supports Japanese and Arabic. False

The ALU translates an instruction into a form that can be read by the CPU. False

One gigahertz (GHz) equals one clock cycle per second. False

Computers perform five basic functions: receive input, process information, produce output, store information, and create new products. False

The more modern language coding scheme that supports over 100,000 unique characters, including Chinese, Greek, and Japanese is known as Unicode. True

**DIMM** Circuit board for RAM chips

**CMOS** Stores the computer's date, time, and calendar

**ROM** Memory that contains a computer's start-up instructions

**RAM** Volatile computer memory

**Bay** Open areas in the system box for disk drives and other devices

**Cache** Small memory space used by the CPU to eliminate bottlenecks in processing

**TTS**

Mendatar

groups of wires where information travels between components BUSES

a keyboard is an example of what type of device INPUT

a computer that transmits information via light waves rather than electrical pulses OPTICAL

the part of the computer that contains the CPU. MOTHERBOARD

menurun

the smallest unit of information a computer can process BIT

the code that represents each character as an 8-bit code ASCII

a speaker is an example of what type of device OUTPUT

the acronym for the nonvolatile memory that can only be read ROM

one-million bytes MEGABYTE

the acronym for the computer's memory that needs to be instantly available to the CPU. RAM

a collection of 8 bits BYTE

the timing device that produces electrical pulses to synchronize a computer's operations CLOCK

1. **CHAPTER-3**

the digital video camera used for video conferencing, WEBCAM

apple's ipod is the example of what type of device, MULTITOUCH

the tiny dots that make up displayed images, PIXELS

the type of printer that sprays ink directly onto paper, INKJET

the type of keyboard based on the placement of letters, QWERTY

the type of keyboard that places your arms at a less painful position, ERGONOMIC

the type of scanner used for high-end publishing and museum archiving, DRUM

he fractional relationship between the width and height of a display, ASPECTRATIO

the type of printer that selectively heats images on special paper, THERMAL

the architectural design that enables users to add peripherals, OPEN

the type of computer feedback that simulates the visual output, HAPTIC

Evidence suggests that typing on a standard keyboard, which forces you to hold your arms and wrists at unnatural angles, may lead to \_\_\_\_\_\_\_\_\_\_\_\_.

A. keyboard fatigue

B. repetitive-stress injuries

C. reduced typing speed

D. increased typing speed

ANSWER B

A \_\_\_\_\_\_\_\_\_\_\_\_, a small flat panel that is sensitive to light pressure, is sometimes used instead of a mouse.

A. trackball

B. game controller

C. touchpad

D. wireless mouse

ANSWER C

A \_\_\_\_\_\_\_\_\_\_\_\_\_ input device allows multi-finger or multi-hand gestures to accomplish complex tasks more quickly.

A. joystick

B. wireless keyboard

C. Bluetooth mouse

D. multi-touch

ANSWER D

A device that uses reflected light to determine the location of pencil marks on a standardized test answer sheet or other similar form is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_.

A. pen scanner

B. flatbed scanner

C. point-of-sale terminal

D. optical mark reader

ANSWER D

A \_\_\_\_\_\_\_\_\_\_\_\_ captures snapshots of the real world and saves them as bit patterns on flash memory cards.

A. webcam

B. film scanner

C. digital camera

D. drum scanner

ANSWER C

A type of software that converts voice data into words that can be edited and printed is called \_\_\_\_\_\_\_\_\_\_\_\_ software.

A. voice input

B. accelerometer

C. speech recognition

D. videoconferencing

ANSWER C

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ converts a computer's internal bit patterns into a form that humans can understand.

A. input device

B. sensor device

C. speech recognition device

D. output device

ANSWER D

Images on a computer screen are made up of tiny dots called \_\_\_\_\_\_\_\_\_\_\_\_.

A. speckles

B. pixels

C. particles

D. points

ANSWER B

A hard copy of the image on the monitor can be produced by a \_\_\_\_\_\_\_\_\_\_\_\_.

A. fax machine

B. printer

C. modem

D. scanner

ANSWER B

\_\_\_\_\_\_\_\_\_\_\_\_ that contain both microphones and earphones can be used for telephone and teleconferencing applications.

A. Audio jacks

B. Speakers

C. Headsets

D. Telephones

ANSWER C

A common storage device on mainframe computers and some PCs that writes data onto and reads data off of a magnetically coated ribbon of tape is a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

A. tape drive

B. optical disk drive

C. floppy drive

D. magnetic disk drive

ANSWER A

A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_ uses laser beams to read and write bits of data on a reflective aluminum layer of the disc.

A. tape disk drive

B. Zip disk drive

C. optical disc drive

D. magnetic disk drive

ANSWER D

A science that studies people at work and designs work environments that enable people to interact efficiently and safely with things is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. ergonomics

B. artificial intelligence

C. computer neurology

D. computer engineering

ANSWER A

\_\_\_\_\_\_\_\_\_\_\_\_ drives can read and write data on Blu-ray discs, DVDs, and CDs.

A. DVD/RW

B. DVD±RW

C. CD-RW

D. BD-RW

ANSWER D

Speech recognition technology can assist someone who cannot use their hands for computer inputting.

A. True

B. False

ANSWER A

When using a graphics tablet, a stylus is NOT a good choice for a pointing device.

A. True

B. False

ANSWER B

Nearly all new monitors use flat-panel LED display technology.

A. True

B. False

ANSWER B

The USB (universal serial bus) is an example of a legacy port.

A. True

B. False

ANSWER B

Solid-state storage devices are rewritable memory devices with no moving parts.

A. True

B. False

ANSWER A

Three technological trends that are changing the way people think about and use computer peripherals are wireless technology, computer networks, and the Internet "cloud."

A. True

B. False

ANSWER A

Serial port, Allows data to be sent and received one bit at a time

Parallel port, Used to attach printers that send and receive bits in groups

Legacy port, A slow port not generally used on PCs anymore

Interface standards, Allow devices produced by one manufacturer to attach to systems made by another manufacturer

USB port, Today's PCs and Macs include one or more of these; allows data transfer rates of up to 480 Mbps

FireWire port, High-speed connection ideal for data intensive applications

1. **Chapter 4**

Crossword

tools for doing system maintenance that aren't done automatically by the operating system, UTILITYPROGRAMS

the concurrent execution of multiple applications, MULTITASKING

free software updates, SERVICEPACKS

files that include installation instructions, README

programs that allow input/output devices to communicate with a computer, DEVICEDRIVERS

translator program that translates high-level languages to machine language, COMPILER

on-screen lists where users choose commands, MENUS

a program that interacts with the host program and extends its functionality, PLUGIN

web applications that provide a service by combining functionality from two or more sources, MASHUP

the unauthorized use of software, PIRACY

the first computer to develop the graphical user interface, MAC

errors in software, BUGS

Online Study Guide

Question 1.

\_\_\_\_\_\_\_\_\_\_\_\_ software cannot be legally copied or distributed to others.

A. Freeware

B. Open-source

C. Shareware

D. Copyrighted

ANSWER D

Question 2.

The best known example of open-source software is \_\_\_\_\_\_\_\_\_\_\_\_.

A. MS Office 2010

B. Windows 7

C. Linux

D. UNIX

ANSWER C

Question 3.

A computer language that uses numeric codes to represent the most basic computer operations is called native \_\_\_\_\_\_\_\_\_\_\_\_.

A. Visual Basic

B. Java

C. machine language

D. C++

ANSWER C

Question 4.

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ translates programs from a high-level computer language, such as C#, into machine language.

A. decoder

B. software translator

C. compiler

D. composer

ANSWER C

Question 5.

\_\_\_\_\_\_\_\_\_\_\_, usually provided either on a disc or on a Web site, includes instructions for installing and using the software.

A. A plug-in

B. A service pack

C. Documentation

D. A Help file

ANSWER C

Question 6.

A \_\_\_\_\_\_\_\_\_\_\_\_ limits your right to install and use the software on multiple computers, copy discs, install software on hard drives, and transfer information to other users.

A. software license

B. guarantee

C. program agreement

D. copyright

ANSWER A

Question 7.

Software that is not copyrighted and is free for the taking is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. commercial software

B. productivity software

C. public-domain software

D. shareware software

ANSWER C

Question 8.

A \_\_\_\_\_\_\_\_\_\_\_\_ is a collection of Web pages that are interactive and collaborative documents that can be edited by anyone.

A. blog

B. domain

C. vlog

D. wiki

ANSWER D

Question 9.

A \_\_\_\_\_\_\_\_\_\_\_\_ is a Web application that provides services by combining data or functionality from two or more external sources.

A. portal

B. collision

C. wiki

D. mashup

ANSWER D

Question 10.

\_\_\_\_\_\_\_\_\_\_\_\_ on a multiuser system ensures that users are who they claim to they are.

A. A password

B. Authentication

C. Permission

D. Authorization

ANSWER B

Question 11.

A program that does system maintenance and repairs that the operating system does not automatically handle is called a \_\_\_\_\_\_\_\_\_\_\_\_.

A. maintenance program

B. system program

C. utility program

D. virus program

ANSWER C

Question 12.

Putting electronic marks on a disk, dividing it into a series of concentric tracks, and dividing each track into a collection of sectors is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. clustering

B. formatting

C. defragmenting

D. sectoring

ANSWER B

Question 13.

The results of intellectual activities in the arts, science, and industry are called \_\_\_\_\_\_\_\_\_\_\_\_\_.

A. trademark property

B. intellectual property

C. stolen property

D. copyrighted property

ANSWER B

Question 14.

The look and feel of the computing experience from a human point of view is the \_\_\_\_\_\_\_\_\_\_\_\_.

A. character interface

B. software interface

C. user interface

D. human interface

ANSWER C

Question 15.

The unauthorized copying and selling of software is called software piracy.

A. True

B. False

ANSWER A

Question 16.

C:\Users\Course\chapter4.docx represents a pathname.

A. True

B. False

ANSWER A

Question 17.

The primary purpose of intellectual property laws is to encourage and reward innovation.

A. True

B. False

ANSWER A

Question 18.

The affective computers being developed by MIT and IBM will be able to read the user's mind.

A. True

B. False

ANSWER B

Question 19.

A fragmented file is a file that is saved to noncontiguous clusters on a hard disk.

A. True

B. False

ANSWER A

Question 20.

Dual tasking allows a computer to run several programs at the same time.

A. True

B. False

ANSWER B

Question 21.

Match the following terms to their definitions.

21.1 Taskbar D A feature of Windows that provides one-click access to open applications

21.2 MS-DOS B The standard operating system on IBM-compatible computers that used a command-line interface

21.3 Command-line interface C A user interface that requires the user to type commands into the computer

21.4 Character-based interface F A user interface based on characters rather than on graphics

21.5 Graphical user interface (GUI) E A user interfaced based on windows, icons, and mouse-driven drop-down menus

21.6 Menu-driven interface A A user interface that allows users to choose commands from on-screen lists

1. **Chapter 5**

Question 1.

Which of the following is a flexible, portable, paper-like material that can erase itself and display new text and images when a new page is displayed?

A. E-book

B. E-paper

C. LCD screen

D. Flash paper

ANSWER: B

Question 2.

\_\_\_\_\_\_\_\_\_\_\_\_ is a capability that most of today's word processers have that allows them to produce personalized form letters.

A. Letter writer

B. Outliner

C. Mail maker

D. Mail merge

ANSWER: D

Question 3.

Documents that are used in the first step of the publishing process, which can include articles, drawings, maps, or photos, are called \_\_\_\_\_\_\_\_\_\_\_.

A. PDF documents

B. storyboard documents

C. templates

D. source documents

ANSWER: D

Question 4.

A document publishing program that allows documents to be shared across multiple platforms is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. Adobe Acrobat

B. Microsoft Word

C. Apple Pages

D. QuarkXPress

ANSWER: A

Question 5.

A user can add words to Microsoft Word's dictionary using the \_\_\_\_\_\_\_\_\_\_\_\_.

A. spelling checker tool

B. grammar checking tool

C. mail merge tool

D. outline tool

ANSWER: A

Question 6.

\_\_\_\_\_\_\_\_\_\_\_\_ fonts represent characters that can be increased or decreased in size without distortion.

A. Bitmapped

B. Scalable

C. Downloadable

D. Unscalable

ANSWER: B

Question 7.

Page-layout software allows desktop publishers to control the space between a pair of letters by using \_\_\_\_\_\_\_\_\_\_\_\_.

A. spacing

B. kerning

C. extension

D. compression

ANSWER: B

Question 8.

A \_\_\_\_\_\_\_\_\_\_\_\_ program makes short work of tasks that involve repetitive calculations, such as budgeting, business projections, grade books, checkbooks, and more.

A. desktop publishing

B. word processing

C. spreadsheet

D. page-layout

ANSWER: C

Question 9.

\_\_\_\_\_\_\_\_\_\_\_\_ software is designed to turn continuous speech into written text, which increases productivity while reducing the risk of repetitive strain injuries.

A. Talkwriter

B. Production

C. Speaker independent

D. Dictation

ANSWER: D

Question 10.

\_\_\_\_\_\_\_\_\_\_\_\_ software uses shape, location in space, color, brightness, and motion to help scientists and mathematicians understand relationships that are not apparent.

A. Spreadsheet

B. Simulation

C. Math-processing

D. Scientific-visualization

ANSWER: D

Question 11.

In a computer model, a set of concepts and ideas designed to mimic some type of system is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

A. abstraction

B. feedback loop

C. formula

D. distraction

ANSWER: A

Question 12.

\_\_\_\_\_\_\_\_\_\_\_\_ software helps professionals and students go beyond the capabilities of spreadsheets to create, manipulate, and solve complex equations.

A. Math-processing

B. Computer-modeling

C. Scientific-visualization

D. Statistical-analysis

ANSWER: A

Question 13.

\_\_\_\_\_\_\_\_\_\_\_\_ is the science of collecting and analyzing data.

A. Modeling

B. Statistics

C. Simulation

D. Speculation

ANSWER: B

Question 14.

A \_\_\_\_\_\_\_\_\_\_\_\_ chart is used to discover a relationship between two variables.

A. scatter

B. line

C. pie

D. bar

ANSWER: A

Question 15.

GIGO is a term that means what you see on the screen is almost exactly what you will see on the printed page.

ANSWER: False

Question 16.

Outlines and form letters can be produced using Microsoft Word software.

ANSWER: True

Question 17.

The intersection of a row and a column in a spreadsheet is a cell.

ANSWER: True

Question 18.

When creating a professional-looking document, you should avoid using italics, boldface, all caps, underlines, and any other styles for emphasis.

ANSWER: False

Question 19.

Desktop publishing saves companies money by allowing them to produce brochures and other publications they need in-house.

ANSWER: True

Question 20.

Pie charts show trends or relationships over time or the relative distribution of one variable through another.

ANSWER: False

MATCHING

1. Microsoft Word, Word processing software

2. Adobe Acrobat, Portable document format software

3. Intuit Quicken, Accounting software

4. Adobe InDesign, Dekstop publishing software

5. Microsoft Excel, Spreadsheet software

CROSSWORD

Across.

2. alignment of text on a line, JUSTIFICATION

5. spacing between lines of text, LEADING

7. text that appears on the bottom of a page, FOOTER

8. when words appear on a screen as they will on a printed page, WYSIWYG

10. tool for finding synonyms, THESAURUS

11. a storage of presteps within documents that can be used as starting points for future documents, TEMPLATES

12. spacing between each pair of letters, KERNING

Down.

1. tool used with a database for producing personalized form letters, MAILMERGE

3. adobe's software program that enables documents to be viewed on any PC, PDF

4. multistep sequences of instructions that automate a repetitive task, MACROS

6. software designed to be used by a workgroup, GROUPWARE

9. the use of single ink color to add interest, SPOTCOLOR

1. **Chapter 6**

crossword

video editing process in which editing occurs in any sequence, NONLINEAR

tiny dots of white, black, or color arranged in rows that make up an image on a computer screen, PIXELS

the density of pixels described in pixels per inch, RESOLUTION

the acronym for the vector graphic format associated with adobe flash player, SWF

jagged, stair-step-like bumps that advertise an image's identity as a collection of pixels, JAGGIES

predrawn images that can be legally used electronically, CLIPART

the acronym for the use of computers to design products, CAD

file format that is used for photographs on the web, JPG

graphics that allow each pixel to appear as black, white, or shades of gray, GRAYSCALE

the process in which an animator creates key frames and objects and then uses software to fill in movement in-between frames, TWEENING

re-creation of songs using fresh rhythms and audio samples, REMIXES

photoshop's native file format, PSD

Question

An image on a computer screen is made up of a matrix of \_\_\_\_\_\_\_\_\_\_\_\_.

A. pixels

B. bits

C. maps

D. bytes

ANSWER A

Cameras connected to a computer can transfer images directly to a computer in \_\_\_\_\_\_\_\_\_\_\_\_.

A. storyboard mode

B. capture mode

C. editing mode

D. real time

ANSWER D

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ image-editing program offers artists and editors the ability to control textures, shading, and fine detail.

A. bitmapped

B. animation

C. CAD

D. CAM

ANSWER A

\_\_\_\_\_\_\_\_\_\_\_\_ software creates smaller files that are faster to transfer over the Internet.

A. Compression

B. MPEG

C. Vector

D. Bitmap

ANSWER A

Bitmapped graphics sometimes are called \_\_\_\_\_\_\_\_\_\_\_\_.

A. digital graphics

B. tweening graphics

C. vector graphics

D. raster graphics

ANSWER D

Apple iPhoto, Google Picasa, and Adobe Lightroom are examples of \_\_\_\_\_\_\_\_\_\_\_\_.

Internet.

A. drawing software

B. photo management software

C. presentation software

D. multimedia software

ANSWER B

MUDhics also are referred to as \_\_\_\_\_\_\_\_\_\_\_\_.

A. digital graphics

B. bitmapped graphics

C. PDF images

D. object-oriented graphics

ANSWER D

Predrawn images that users can legally cut and paste into their own documents are called \_\_\_\_\_\_\_\_\_\_\_\_.

A. clip art

B. bitmapped graphics

C. vector graphics

D. graphic images

ANSWER A

Computers are used to design three-dimensional products in a branch of engineering known as \_\_\_\_\_\_\_\_\_\_\_\_.

A. computer-aided engineering

B. computer-design engineering

C. computer-aided design (CAD)

D. computer science

ANSWER C

A \_\_\_\_\_\_\_\_\_\_\_\_, a still picture drawn by artists, was used to develop animation before computers.

A. bitmap

B. CAD

C. frame

D. vector

ANSWER C

A \_\_\_\_\_\_\_\_\_\_\_\_ converts analog videos and broadcasts to digital format.

before computers.

A. video digitizer

B. sequencing software

C. video editor

D. compression editor

ANSWER A

\_\_\_\_\_\_\_\_\_\_\_\_ uses computer displays to add virtual information to a person's sensory perceptions.

A. Virtual reality

B. Multimedia

C. Augmented reality

D. Tele-immersion

ANSWER C

\_\_\_\_\_\_\_\_\_\_\_\_ creates an environment in which multiple remote users can interact with each other and with computer-generated objects using multiple cameras and high-speed networks.

A. Tele-reality

B. Tele-immersion

C. Augmented reality

D. Virtual reality

ANSWER B

\_\_\_\_\_\_\_\_\_\_\_\_ allows the viewer/listener to control the information flow.

A. Interactive multimedia

B. Augmented multimedia

C. Virtual multimedia

D. Reality multimedia

ANSWER A

Multimedia usually means using a combination of text, graphics, animation, video, music, voice, and sound effects.

A. True

B. False

ANSWER A

Tim Berners-Lee founded the World Wide Web Consortium (W3C).

A. True

B. False

ANSWER A

PPI is the resolution of a screen, while DPI is the resolution on printed documents.

A. True

B. False

ANSWER A

CAD software is used by videographers to develop digital movies.

A. True

B. False

ANSWER B

Digital photos created by digital cameras are bitmapped images.

A. True

B. False

ANSWER A

Gray-scale graphics use up to 256 different colors to render images on a monitor.

A. True

B. False

ANSWER B

Matching

Animation, Creating motion from still images

Tweening, Using software to help fill in the movement of the objects in-between frames of an animation

Podcast, A radio-style program that can be downloaded to a computer

Sampling rate, The number of sound "snapshots" the recording equipment takes each second

Synthesizer, Electronic instrument that produces sounds using mathematical formulas

Remix, The complete reworking of a song using fresh instrumentation, rhythms, and audio samples

1. **Chapter 7**

Chapter 7: Database Applications and Privacy Implications

1. \_\_\_\_\_\_\_\_\_\_\_\_ make it easier to store large amounts of information, retrieve information quickly and flexibly, and organize and reorganize information.

A. Spreadsheets

B. Documents

C. Tables

D. Databases

ANSWER D

2. A \_\_\_\_\_\_\_\_\_\_\_\_\_ is a feature of databases that blurs the line between application programs and development tools.

A. form

B. look-up

C. stored query

D. report

ANSWER C

3. \_\_\_\_\_\_\_\_\_\_\_\_\_ is a standard language that allows users to query databases without learning a new programming language.

A. Java

B. Visual Basic

C. C#

D. SQL

ANSWER D

4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ program automates appointment calendar, to-do list, and address/phone book functions.

A. relational database system

B. graphical information system (GIS)

C. Web database

D. personal information manager (PIM)

ANSWER D

5. A \_\_\_\_\_\_\_\_\_\_\_\_ can manipulate data in a large collection of tables, cross-referencing between tables as needed.

A. database-management system

B. personal information manager

C. relational database

D. database program

ANSWER A

6. A \_\_\_\_\_\_\_\_\_\_\_\_ is a field shared by all the tables that use data from a table.

A. record

B. key field

C. data mine

D. data object

ANSWER B

7. A \_\_\_\_\_\_\_\_\_\_\_ system enables users to access data stored on large server systems using PCs or smart phones through a network or the Internet.

A. data-mining

B. data warehouse

C. distributed database

D. client/server

ANSWER D

8. The discovery and extraction of hidden predictive information from large databases is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. real-time processing

B. interactive processing

C. data mining

D. batch processing

ANSWER C

9. A database that stores data in cubes rather than 2-D tables is a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

A. client/server database

B. multidimensional database

C. interactive database

D. object-oriented database

ANSWER B

10. \_\_\_\_\_\_\_\_\_\_\_\_ eliminates dirty data to correct errors in a database.

A. Data correction

B. Information washing

C. Data scrubbing

D. Error deletion

ANSWER C

11. Fraudulent credit card charges, massive phone bills, threats from collection agencies, and arrests are sometimes the result of \_\_\_\_\_\_\_\_\_\_\_.

A. privacy theft

B. data errors

C. record matching

D. identity theft

ANSWER D

12. According to the U.S. Supreme Court, the right to privacy is implied by which document?

A. The Children's Online Privacy Protection Act

B. U.S. Constitution

C. The Code of Fair Information Practice

D. Declaration of Independence

ANSWER B

13. The \_\_\_\_\_\_\_\_\_\_\_\_ regulates the use of government data in determining eligibility for federal benefits.

A. U.S. Fair Credit Reporting Act of 1970

B. 1988 Computer Matching and Privacy Protection Act

C. U.S. Financial Modernization Act of 1999

D. U.S. Freedom of Information Act of 1966

ANSWER B

14. \_\_\_\_\_\_\_\_\_\_\_\_ is the result of massive disk drives, inexpensive memory, and sophisticated software that replaced batch processing for most applications.

A. Interactive processing

B. Automated processing

C. Real-time processing

D. Distributed processing

ANSWER A

15. Privacy is usually referred to as an individual's right to have control over confidential personal information.

A. True

B. False

ANSWER A

16. SQL is a full-featured programming language similar to Java or C#.

A. True

B. False

ANSWER B

17. A media database can serve as an index to separately stored video and audio files because they are too large to store in a database.

A. True

B. False

ANSWER A

18. Privacy breaches may be innocent mistakes, strategic actions, or malicious mischief, and may not always involve computers.

A. True

B. False

ANSWER A

19. Databases are only useful for small quantities of information.

A. True

B. False

ANSWER B

20. A database table contains records made up of discrete chunks of information called fields.

A. True

B. False

ANSWER A

Crosswords

each discrete chunk of information in a record, FIELD

the information system in which tables of data are combined with other data, GEOGRAPHICAL

an information request in database terminology, QUERY

fields that contain formulas similar to spreadsheet formulas, COMPUTEDFIELDS

an organized collection of information stored in a computer, DATABASES

a collection of related information similar to how a file cabinet works, TABLE

an ordered list of selected records and fields in an easy-to-read format, REPORT

information related to one person, product, or event, RECORD

the view in a database that shows one record at a time, FORM

the command that arranges records in alphabetic or numeric order based on values in one or more fields, SORT

the language used to construct most web pages, HTML

modern database language for programming complex queries, SQL

Matching

Table, A collection of related information

Field, A discrete chunk of information in a record

Record, All the information related to a person, product, or event

Database, A collection of related tables

Form view, Shows one record on the screen at a time

Report, Shows the selected fields and records in an easy-to-read format

1. **Chapter 8**

MENURUN

- the most famous protocol for computer networking, TCPIP

- the most common type of LAN cable, TWISTEDPAIR

- what nodes are connected to and allow any node on the network to communicate with another node, HUB

- rules for the exchange of data between devices, PROTOCOLS

- the acronym for the network of lans that extends over a long distance, WAN

- hardware device that connects a computer to a telephone line through phone jacks, MODEM

MENDATAR

- the technology of long-distance communication, TELECOMMUNICATION

- a computer connection using a modem and standard phone line, DIALUP

- the quantity of data that can be transmitted through a communication medium in any given amount of time, BANDWITH

- the acronym for the network in which the computers are physically close to each other, LAN

- hardware devices that route messages as they travel between networks, ROUTERS

- the network in which a message hops from wireless device to wireless device until it finds its destination, MESH

1. Which of the following is a network in which computers and peripherals are located physically close together,

often in the same building, and does not include a radio transmitter?

A. LAN

B. Wireless

C. WAN

D. PAN

ANSWER A

2. In \_\_\_\_\_\_\_\_\_\_\_, tiny radio transmitters in each node send and receive data through the air.

A. local area networks

B. personal area networks

C. wireless networks

D. wide area networks

ANSWER C

3. Hardware devices or software programs that make it possible for messages to pass from the originating computer's LAN through a chain of intermediate networks to reach the LAN of the destination computer are called \_\_\_\_\_\_\_\_\_\_\_\_.

A. VoIPs

B. meshes

C. routers

D. modems

ANSWER C

4. \_\_\_\_\_\_\_\_\_\_\_\_ carries traffic at speeds of 1 gigabit of data per second when all the LAN devices are compatible with that speed.

A. Megabit Ethernet

B. Broadband

C. Fast Ethernet

D. Gigabit Ethernet

ANSWER D

5. A significant delay between the time a message is sent and the time it is received is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. dial-up

B. duration

C. TCP/IP

D. latency

ANSWER D

6. \_\_\_\_\_\_\_\_\_\_\_\_ is not often used in networks due to distance and line-of-sight limitations.

A. Wi-Fi

B. DSL

C. VPN

D. Infrared wireless

ANSWER D

7. A type of wireless technology named for a Danish king is \_\_\_\_\_\_\_\_\_\_\_\_.

A. Bluetooth

B. PA

C. WiMAX

D. WEP

ANSWER A

8. \_\_\_\_\_\_\_\_\_\_\_\_ networks use the IP packet-switching technology used by the Internet.

Open Hint for Question 8 in a new window.

A. 6G

B. 3G

C. 5G

D. 4G

ANSWER D

9. A device that uses signals broadcast by three or four visible satellites to determine its position is called a \_\_\_\_\_\_\_\_\_\_\_\_.

A. GPS transmitter

B. GPS receiver

C. GPA transceiver

D. 2G transceiver

ANSWER B

10. A \_\_\_\_\_\_\_\_\_\_\_\_ accepts, prioritizes, and processes print jobs in a client/server network.

A. printer administrator

B. print manager

C. print server

D. print list

ANSWER C

11. A \_\_\_\_\_\_\_\_\_\_\_\_ is one or more computers shared between multiple users and used as storehouses for software and data.

A. print server

B. transmission server

C. file server

D. download server

ANSWER C

12. SMTP, POP, and IMAP are protocols used by \_\_\_\_\_\_\_\_\_\_\_\_.

A. TCP/IP

B. email programs

C. online banking programs

D. Web bugs

ANSWER B

13. A \_\_\_\_\_\_\_\_\_\_\_\_ is a piece of invisible code that notifies the sender when an email message was opened and may report information to the sender regarding the recipient's computer or email program.

A. Web bug

B. phishing pole

C. Trojan

D. VPN

ANSWER C

14. Unsolicited, junk email messages are called \_\_\_\_\_\_\_\_\_\_\_\_.

A. PAN

B. spim

C. spam

D. phish

ANSWER C

15. Each device on a network, including printers, scanners, computers, and drives, are called nodes.

ANSWER TRUE

16. A blog is an online journal that is usually published on a public Web site.

ANSWER TRUE

17. A forum provides real-time (synchronous) communication to users.

ANSWER FALSE

18. Wi-Fi technology allows notebook computer users to access the Internet at hotspots.

ANSWER TRUE

19. Large organizations sometimes use a backbone network to connect its WANs.

ANSWER FALSE

20. Viral digital videos carry concealed computer viruses.

ANSWER FALSE

21.1. Firewall, Software used to block unauthorized data transfers

21.2. WiMAX, Provides Wi-Fi-style access to a 25-square mile area, and supports line-of-sight connections up to 30 miles away

21.3. Hotspot, A wireless access point

21.4. VPN, Uses the Internet to provide secure access to an organization's network

21.5. PAN, A network that allows linked personal electronic devices to communicate with each other

21.6 WEP, Provides encryption for wireless networks

**Chapter 9**

Jawaban Soal Prenhall Bab 9

Crossword:

Down:

- the broadband access that links computers to nearby networks through radio waves, WIRELESS

- the type of server that stores applications and makes them available to client programs that request them, APPLICATION

- software that parents can use to protect children from inappropriate web content, FILTERING

- the broadband access that uses standard phone lines and is provided by phone companies, DSL

- the server type that distributes programs, media files, and other data files across LANs and the internet, FILESERVER

- the first part of what a url refers to, PROTOCOL

- what separates people who have easy access to computers from those who do not, DIGITALDIVIDE

Across:

- an affordable, secure, high-speed network that provides universal internet service for all americans, INFORMATIONINFRASTRUCTURE

- a string of four numbers separated by periods that defines the addressing system of the internet, IPADDRESS

- the server type that receives incoming mail, stores it, and provides it to the email client programs of the addressees, EMAILSERVER

- the protocol that enables users to download files from file servers to their computers, FILETRANSFER

Multiple Choice:

Question 1

A \_\_\_\_\_\_\_\_\_\_\_\_ is a software robot that explores the Web and retrieves information about pages and indexes the information in a database.

A. spider

B. search engine

C. browser

D. portal

ANSWER A.

Question 2

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ makes it possible to add or update text, images, or other Web site content without using HTML or a Web authoring program.

A. client/server system

B. email server system (ESS)

C. content-management system (CMS)

D. file-management system (FMS)

ANSWER C.

Question 3

Adobe Dreamweaver, Microsoft Expression Web, and Apple's iWeb are examples of \_\_\_\_\_\_\_\_\_\_\_\_.

A. WYSIWYG

B. Web sites

C. HTML documents

D. Web authoring software

ANSWER D.

Question 4

Which of the following is NOT an example of a Web portal?

A. MSN

B. AOL/Netscape

C. Yahoo!

D. Froogle

ANSWER D.

Question 5.

Which protocol is used to upload and download files from file servers?

A. FTP

B. TCP/IP

C. HTTPS

D. HTTP

ANSWER A.

Question 6.

\_\_\_\_\_\_\_\_\_\_\_\_ files are sound files that begin to play before the file completely downloads.

A. Streaming audio

B. Frame

C. Animation

D. Compressed audio

ANSWER A.

Question 7.

Which of the following is NOT an Internet programming language?

A. XML

B. java

C. FTP

D. PHP

ANSWER C.

Question 8.

The \_\_\_\_\_\_\_\_\_\_\_\_ is decentralized and is growing too fast to track.

A. Internet

B. TCP protocol

C. Web

D. online environment

ANSWER A.

Question 9.

A \_\_\_\_\_\_\_\_\_\_\_\_ is a small portion of an Internet message that has all the information routers need to transfer sections of information from network to network toward the destination.

A. particle

B. message

C. packet

D. podcast

ANSWER C.

Question 10.

\_\_\_\_\_\_\_\_\_\_\_\_ is the language of the Internet, which allows cross-network communication between different types of computers and networks.

A. VoIP

B. TCP/IP

C. DNS

D. HTML

ANSWER B.

Question 11.

\_\_\_\_\_\_\_\_\_\_\_\_ supports multicast, which solves the shortage-of-addresses problem for IP addresses.

A. IPv6

B. TCP/IP

C. IPv4

D. DNS

ANSWER A.

Question 12.

Numerical IP addresses are mapped to domain names by the Internet's \_\_\_\_\_\_\_\_\_\_\_\_.

A. online service

B. IPv6 protocol

C. service provider

D. domain name system (DNS)

ANSWER D.

Question 13.

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ stores applications and provides them to client programs that request them.

A. application server

B. email server

C. file server

D. Web server

ANSWER A.

Question 14.

The \_\_\_\_\_\_\_\_\_\_\_\_ describes the separation of people who have easy access to computers and the Internet from those who do not have access.

A. country divide

B. digital divide

C. demographic divide

D. Internet divide

ANSWER B.

Question 15.

A uniform resource locator (URL) is made of a protocol, the address of the host that contains the resource, and the path to the specific resource on the host.

A. True

B. False

ANSWER A.

Question 16.

The World Wide Web is a distributed browsing and searching system developed at MIT by Tim Berners-Lee.

A. True

B. False

ANSWER B.

Question 17.

Facebook and Twitter are build-it-yourself Web 2.0 social networking communities.

A. True

B. False

ANSWER A.

Question 18.

Filtering software keeps malware from invading your computer.

A. True

B. False

ANSWER B.

Question 19.

The Internet is controlled by a joint commission from the United States and China.

A. True

B. False

ANSWER B.

Question 20.

Cyberspace describes a shared virtual reality, complete with sensations such as sight and sound.

A. True

B. False

ANSWER A.

Matcing:

- Applet, Tiny application built using Java

- Silverlight, Popular client-side tool used to create interactive media-rich Web components

- XML, A markup language that represents the contextual meaning of data

- XHTML, A markup language that combines features of HTML and XML

- Cookies, Small files deposited on a visitor's hard drive that track visits, activities, and preferences

- Static Website, A site with content that seldom changes

**CHAPTER 10**

CROSSWORD PUZZLE

Down

- hacking as a form of political activism HACTIVISTS

- pretending to be someone else to trick them into doing something they otherwise would not do SPOOFING

- unique personal characteristics used for identification are collectively called BIOMETRICS

- a piece of code hidden in the operating system VIRUS

- technology that collects information from computer users without their knowledge SPYWARE

Across

- malicious software MALWARE

- a malicious network that's been hijacked using viruses to perform harm without the owners knowledge BOTNETS

- the type of trojan horse that is programmed to attack in response to an event LOGICBOMB

- embedded programs that automate tasks MACROS

- fishing for sensitive information under false pretenses PHISING

- in 2001 this worm targeted servers running microsoft software CODERED

- the acronym for the type of attack where servers are bombarded with bogus traffic to shut them down DOS

MULTIPLE CHOICE

Question 1.

Which of the following is NOT a purpose of antivirus software?

Open Hint for Question 1 in a new window.

A. Notify a user if a virus is found

B. Copy the name of the virus and send it to Microsoft for inspection

C. Search for viruses

D. Remove any identified viruses

Answer : D

Question 2.

A type of program that gathers user information and sends it to an outside source through the Internet is called \_\_\_\_\_\_\_\_\_\_\_.

Open Hint for Question 2 in a new window.

A. spyware

B. a firewall

C. Webjacker

D. malware

Answer : A

Question 3.

Which type of software plugs potential security breaches in the operating system or applications?

Open Hint for Question 3 in a new window.

A. Security patches

B. Firewall

C. Spybot

D. Encryption

Answer : A

Question 4.

\_\_\_\_\_\_\_\_\_\_\_\_ technology allows multiple hard disks to operate as a single unit, providing the ability to keep copies of important data in several locations.

Open Hint for Question 4 in a new window.

A. RAID

B. UPS

C. RTF

D. DVD

Answer : A

Question 5.

An ID card with a photo that contains digitally encoded identification in a built-in memory chip is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

Open Hint for Question 5 in a new window.

A. password

B. access key

C. biometric

D. smart card

Answer : D

Question 6.

A complex system that assumes almost full responsibility for a task without human input, verification, or decision making is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

Open Hint for Question 6 in a new window.

A. autonomous system

B. archive backup

C. audit-control system

D. smart weapon

Answer ; A

Question 7.

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ is a secret numerical code that allows a message to be transmitted or stored as an indecipherable garble of characters.

Open Hint for Question 7 in a new window.

A. biometric key

B. encryption key

C. password

D. security patch

Answer : B

Question 8.

\_\_\_\_\_\_\_\_\_\_\_\_ perform illegal hacks for political reasons, which they consider to be for the greater public good.

Open Hint for Question 8 in a new window.

A. Crackers

B. Hactivists

C. Webjackers

D. Hackers

Answer : B

Question 9.

A \_\_\_\_\_\_\_\_\_\_\_\_ is a virus that attaches itself to documents with embedded programs that automate tasks.

Open Hint for Question 9 in a new window.

A. macro virus

B. Trojan horse

C. spoof

D. worm

Answer : A

Question 10.

A technology that collects information from computer users without their knowledge or consent is called \_\_\_\_\_\_\_\_\_\_\_\_.

Open Hint for Question 10 in a new window.

A. a virus

B. a worm

C. spyware

D. malware

Answer : C

Question 11.

A logic bomb is a type of \_\_\_\_\_\_\_\_\_\_\_\_.

Open Hint for Question 11 in a new window.

A. Trojan horse

B. worm

C. spybot

D. macro virus

Answer : A

Question 12.

\_\_\_\_\_\_\_\_\_\_\_\_ are Internet-connected computers that have been hijacked using viruses to perform malicious acts without the knowledge of their users and owners.

Open Hint for Question 12 in a new window.

A. Zombie computers

B. Auditor computers

C. Surge protectors

D. System administrators

Answer : A

Question 13.

A(n) \_\_\_\_\_\_\_\_\_\_ that is traditionally used on computer networks is called a symmetric secret key system.

Open Hint for Question 13 in a new window.

A. administration system

B. cryptosystem

C. cybersystem

D. UPS system

Answer : B

Question 14.

\_\_\_\_\_\_\_\_\_\_\_\_ cause more damage to computers, networks, and programs than all the viruses put together.

Open Hint for Question 14 in a new window.

A. Crackers

B. Hackers

C. Bugs

D. Worms

Answer : C

Question 15.

All corporations in the U.S. work together with the U.S. government to protect networks.

Open Hint for Question 15 in a new window.

A. True

B. False

Answer : B

Question 16.

While risks involved in computer use can be reduced, they cannot be eliminated.

Open Hint for Question 16 in a new window.

A. True

B. False

Answer : A

Question 17.

When someone uses a disc, flash drive, or a computer network with an infected machine, a virus can jump from one computer to another.

Open Hint for Question 17 in a new window.

A. True

B. False

Answer : A

Question 18.

Most computer viruses are NOT operating-system specific.

Open Hint for Question 18 in a new window.

A. True

B. False

Answer : B

Question 19.

Since synthetic DNA is possible, the efforts of biohackers to create and modify organisms in home laboratories have succeeded.

Open Hint for Question 19 in a new window.

A. True

B. False

Answer : B

Question 20.

Today's typical computer contains components from dozens of countries.

Open Hint for Question 20 in a new window.

A. True

B. False

Answer : A

Match the following terms to the correct definitions.

Phising C. Requesting passwords and other sensitive data under false pretenses

Malware A. Malicious software

Spoofing F. Masquerading as somebody else to trick the target into doing something they might not otherwise do

Cyberstalking E. A form of harassment that takes place on the Internet

Denial-of-service attacks D. Bombard servers and Web sites with bogus traffic until they are shut down

**Chapter 11**

Crossword:

Down:

- buying and selling products through the internet ECOMMERCE

- the combination of e-learning with face-to-face teaching BLENDEDLEARNING

- the man who popularized the term used to describe a home where technology allows working from home ALVINTOFFLER

- the acronym for programs that embed a lesson in a game, smart phone, or other hardware system CBT

- applications that enable groups of users to share calendars, data, and documents GROUPWARE

- the acronym for electronic commerce transactions that account for the majority of online sales B2B

Across:

- a job that has been automated to the point that it requires less skill DESKILLED

- the path of information as it flows through a workgroup WORKFLOW

- computers that can't function without access to servers THINCLIENTS

- using technology to extend the educational process beyond a location DISTANCELEARNING

- the higher education dominant e-learning platform BLACKBOARD

- using digital technology to facilitate teaching and learning ELEARNING

Multiple Choice:

Question 1

Which of the following allows documents to be transmitted and stored electronically without loss of formatting?

A. Groupware

B. Courseware

C. PDF

D. IDEA

ANSWER C.

Question 2

When students work together on technology-enhanced projects, it is sometimes called \_\_\_\_\_\_\_\_\_\_\_\_.

A. IDEA

B. LOGO

C. PDF

D. CBCL

ANSWER D.

Question 3

\_\_\_\_\_\_\_\_\_\_\_\_ is the use of electronic digital technology to facilitate teaching and learning.

A. Courseware

B. E-learning

C. Work flow

D. Cottage education

ANSWER B.

Question 4

For patients in remote locations, doctors use the Web to practice \_\_\_\_\_\_\_\_\_\_\_\_.

A. telemedicine

B. telemetry

C. cybermedicine

D. telepharmacy

ANSWER A.

Question 5.

\_\_\_\_\_\_\_\_\_\_\_\_ separates software and data from PC hardware, by using software and data stored on servers in an IT center or in the Internet cloud.

A. A satellite office

B. An electronic cottage

C. A regional work center

D. Desktop virtualization

ANSWER D.

Question 6.

When a job has been transformed by automation to require less skill, it is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. Computer demolished

B. Computer monitored

C. up skilling

D. de skilling

ANSWER D.

Question 7.

A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_ refers to someone who resists technological change.

A. technophobe

B. e-clerk

C. Luddite

D. data entry clerk

ANSWER C.

Question 8.

\_\_\_\_\_\_\_\_\_\_\_\_ embeds lessons in animated games, in smart phone apps, or in Web-based instructional packages.

A. IDEA

B. ADA

C. PDF

D. CBT

ANSWER D.

Question 9.

\_\_\_\_\_\_\_\_\_\_\_\_ include(s) educational programs that allow(s) students to learn through exploration and invention.

A. Collaborative learning

B. Virtual education

C. Blended learning

D. educational simulations

ANSWER D.

Question 10.

\_\_\_\_\_\_\_\_\_\_\_\_ is a computer language used to teach children to program computers.

A. LOGO

B. Alice

C. The Sims

D. JAVA

ANSWER A.

Question 11.

\_\_\_\_\_\_\_\_\_\_\_\_ is a combination of e-learning with face-to-face teaching.

A. Virtual school

B. Blended learning

C. CBT

D. CBCT

ANSWER B.

Question 12.

One of the fastest growing computer markets today is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. SOHO

B. MMOPRG

C. ADA

D. Edutainment

ANSWER A.

Question 13.

\_\_\_\_\_\_\_\_\_\_\_\_ is the creation of worldwide businesses and markets.

A. Technophobia

B. Globalization

C. Automation

D. E-business

ANSWER B.

Question 14.

\_\_\_\_\_\_\_\_\_\_\_\_ is the fear of technology.

A. Technophobia

B. Globalism

C. Communication

D. Literacy

ANSWER A.

Question 15.

Filtering software blocks viruses from personal computers.

A. True

B. False

ANSWER B.

Question 16.

An electronic cottage is a small m-commerce business that sells information online.

A. True

B. False

ANSWER B.

Question 17.

Computers are used in many fields, including entertainment, publishing, medicine, airlines, science, and education.

A. True

B. False

ANSWER A.

Question 18.

Extranets are used by partners and customers of a particular business.

A. True

B. False

ANSWER A.

Question 19.

While early predictions stated that computers would significantly reduce the flow of paper-based information, this has not happened.

A. True

B. False

ANSWER A.

Question 20.

Narrowcasting allows for corporate news programs aimed at companies and large groups.

A. True

B. False

ANSWER B.

Matcing:

- Telemedicine, Computers used to monitor vital signs from a distance.

- Groupware, Allows users to share calendars, send messages, access data, and work on documents simultaneously

- Robot, A computer-controlled machine

- Thin client, A low-cost computer that can't function without access to servers

- Work flow , The path of information as it flows through a workgroup

- Electronic commerce , Buying and selling products through the Internet

**Chapter 12**

Crossword Puzzles

ACROSS

the model michael porter proposed that views a business as a series of activities designed to add value to a product VALUECHAIN

a subsystem that supports the information needs of an organization INFORMATIONSYSTEM

the acronym for an accounting system that keeps track of routing daily transactions for conducting business TPS

the process of showing information in a format and medium useful to a user PRESENTATION

a manager who is responsible for the day-to-day activities in a value chain is at this level OPERATIONAL

the area outside a system's boundary ENVIRONMENT

DOWN

the process of capturing data related to an event that is important to the organization ACQUISITION

how customers rate the output of an organization's value chain EFFECTIVENESS

the event that occurs in any of the primary activities of a company TRANSACTION

data processing that involves gathering and manipulating data to be processed for a particular time BATCHPROCESSING

a system performs input, processing, and this OUTPUT

the acronym for a system that collects transaction data from business processes and stores that data in a data warehouse ERP

Online study Guide

1.Which of the following models views a business as a series of activities that adds value to a product or service?

a.Value chain

b.Business added

c.Business worth

d.Value added

Answer:A.value chain model views a business as a series of activities that adds value to a product or service.

2.Which type of software is used by many large organizations to create and maintain large databases?

a.Batch processing

b.Real-time processing

c.Data entry

d.Data warehousing

Answer:D.Data warehousing

3.A(n) \_\_\_\_\_\_\_\_\_\_\_\_ occurs when two or more companies share information.

a.electronic data interchange

b.international information system

c.information partnership

d.transborder data flow

Answer:C.information partnership

4.Selling a product to a customer, entering employee work hours, or processing a payment to a vendor are examples of which type of event in an organization?

a.Data entry

b.Transaction

c.Management activities

d.Processing

Answer:B.Transaction

5.\_\_\_\_\_\_\_\_\_\_\_\_ refers to the flow of data between countries.

a.Transborder data flow

b.Outsourcing

c.International information system

d.EDI

Answer:A.Transborder data flow

6.The direct, computer-to-computer exchange of standardized, common business transaction documents, such as purchase orders and invoices, between business partners is called \_\_\_\_\_\_\_\_\_\_\_\_.

a.group decision support systems (GDSS)

b.enterprise resource planning (ERP)

c.electronic data interchange (EDI)

d.business alliance (BA)

Answer:C.electronic data interchange (EDI)

7.A(n) \_\_\_\_\_\_\_\_\_\_\_\_ combines features of MIS and DDS to support unstructured decision making by top managers.

a.decision support system (DSS)

b.expert system (ES)

c.executive information system (EIS)

d.management information system (MIS)

Answer:C.executive information system (EIS)

8.Systems that provide too many reports, too many summaries, and too many details cause managers to experience \_\_\_\_\_\_\_\_\_\_\_\_.

a.information barriers

b.information overload

c.redundant information

d.erroneous decision making

Answer:B.information overload

9.An information system used at any level of a company that helps the company gain an advantage over competitors is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

a.strategic information system

b.management information system

c.executive information system

d.decision support system

Answer:A.strategic information system

10.A set of activities that helps individuals to efficiently use resources to achieve an organization's goals is called \_\_\_\_\_\_\_\_\_\_\_\_.

a.management

b.outsourcing

c.decision making

d.a partnership

Answer:A.management

11.A \_\_\_\_\_\_\_\_\_\_\_\_ is a network of organizations that supply raw materials, manufacture products, and distribute products to customers.

a.business acquisition

b.value chain

c.business alliance

d.supply chain

Answer:D.supply chain

12.\_\_\_\_\_\_\_\_\_\_\_\_ states that semiconductor technology absorbs the functions of what previously were discrete electronic components onto a single new chip.

a.Grove's Law

b.The Internet Principle

c.The Cannibal Principle

d.Moore's Law

Answer:C.The Cannibal Principle

13.A system designed to create products and services for customers is called a \_\_\_\_\_\_\_\_\_\_\_\_.

a.business computer system

b.business organization

c.manufacturing organization

d.manufacturing system

Answer:B.business organization

14.The time, effort, and money a customer or supplier would have to expend when changing to a competitor's product or service is called \_\_\_\_\_\_\_\_\_\_\_\_.

a.business costs

b.business expenses

c.entry barriers

d.switching costs

Answer:D.switching costs

15.An expert system is a basic accounting and record-keeping system that tracks daily transactions necessary to conduct business.

a.True

b.False

Answer:B.False

16.A set of interrelated parts that work together to accomplish a purpose is called a system.

a.True

b.False

Answer:A.True

17.Strategic planning defines the company's mission, identifies the company's environment and internal strengths and weaknesses, and describes the company's competitive strategy.

a.True

b.False

Answer:A.True

18.Handing the responsibility for developing and operating the information systems to another firm is called outsourcing.

a.True

b.False

Answer:A.True

19.Too many reports, too many printouts, too many summaries, and too many details are known as critical success factors.

a.True

b.False

Answer:B.False

20.When the primary and support activities of an organization produce the desired output with lower costs, the organization's efficiency increases.

a.True

b.False

Answer:A.True

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21.1 GIS

A.System that works with maps

21.2 GDSS

E.System that enhances collaborative work

21.3 CIO

B.Executive in charge of the information systems division

21.4 ES

F.Provides information from a knowledgeable person

21.5 DSS

C.System for making semistructured decisions

21.6 EIS

D.A system that provides support for unstructured decision making by top managers

**Chapter 13**

CROSSWORD :

created by team members, explains all the terminology relevant to the project : PROJECTDICTIONARY

decision whereby a determination is made whether the new system should be developed in-house or from an outside vendor : BUILDORBUY

the underlying cause of a symptom : PROBLEM

the acronym for a request for a vendor to quote a price for specific components of the information system : RFQ

a type of testing in which the users evaluate the system to see whether it meets their needs : ACCEPTANCE

type of system in which the programs are tested individually and then tested together : APPLICATION

the acronym for a system's overall financial yield at the end of its lifetime : ROI

the acronym for the request for a vendor to write a proposal for the design, installation, and configuration of an information system : RFP

benefits such as increased sales, faster response time, and decreased complaints : TANGIBLE

conversion that involves implementing a new system over different times, one part at a time : PHASED

a type of bar chart that indicates task due dates and project milestones : GANTT

system conversion that involves running both the new and old systems for a while : PARALLEL

ONLINE STUDY GUIDE :

1. \_\_\_\_\_\_\_\_\_\_\_\_ is the process of increasing traffic to Web sites by improving search engine rankings for targeted keywords.

a. Freeconomics

b. Search engine optimization (SEO)

c. Disaggregation

d. Spamdexing

Answer : B

2. The \_\_\_\_\_\_\_\_\_\_\_\_ puts strict limits on what cable companies can do with customer records.

a. European Union Data Protection Directive

b. Federal Trade Commission Act

c. Children's Online Privacy Protection Act

d. Communications Act

Answer : D

3. The \_\_\_\_\_\_\_\_\_\_\_\_\_, issued in October 1998 by the EU, establishes a high level of legal protection for the privacy of individuals and personal data.

a. Health Insurance Portability and Accountability Act

b. Data Protection Directive

c. Annenberg Public Policy

d. Children's Online Privacy Protection Act

Answer : B

4. The trend of separating commerce into its component parts and outsourcing some of those parts is called \_\_\_\_\_\_\_\_\_\_\_\_.

a. innovation

b. interaction

c. Wi-Fi commerce

d. disaggregation

Answer : D

5. In \_\_\_\_\_\_\_\_\_\_\_\_, smart phones, tables, PDAs, laptops, and other portable electronic devices are used to conduct commerce while on the move.

a. iPhone commerce

b. online retail commerce

c. mobile commerce (m-commerce)

d. mobile Internet

Answer : C

6. The \_\_\_\_\_\_\_\_\_\_\_\_ is an extranet that was developed as an Internet VPN to provide a global infrastructure for trading partners within the automotive industry.

a. Vehicular Network Exchange (VNE)

b. Automotive Information Exchange (AIE)

c. Automotive Network Exchange (ANX)

d. Vehicular Information Exchange (VIE)

Answer : C

7. A(n) \_\_\_\_\_\_\_\_\_\_\_\_ uses a public network with special protocols that provide a secure, private "tunnel" across the network between business partners' intranets.

a. secure private network

b. intranet

c. public network

d. virtual private network (VPN)

Answer : D

8. \_\_\_\_\_\_\_\_\_\_\_\_ refers to methodologies, software, and Internet capabilities for managing customer relationships.

a. Customer relationship management (CRM)

b. A secure private network

c. A business intranet

d. An extranet

Answer : A

9. The use of information and communication technology in support of business activities is called \_\_\_\_\_\_\_\_\_\_\_\_.

a. electronic business

b. B2B

c. B2C

d. online business

Answer : A

10. \_\_\_\_\_\_\_\_\_\_\_\_ were Internet businesses that commercialized the World Wide Web in the 1990s.

a. E-commerce sites

b. Internet sites

c. E-businesses

d. Dot-coms

Answer : D

11. B2B, B2C, C2C, and B2E are examples of \_\_\_\_\_\_\_\_\_\_\_\_.

a. online business models

b. consumer models

c. e-commerce models

d. intranet models

Answer : C

12. \_\_\_\_\_\_\_\_\_\_\_\_ refers to the tail of the statistical curve that appears when you rank books, movies, or tunes by popularity as reflected in sales or rentals.

a. Medium Curve

b. Short Tail

c. Long Tail

d. Bell Curve

Answer : C

13. \_\_\_\_\_\_\_\_\_\_\_\_ is a critical part of everyday business.

a. Honesty

b. Scruples

c. Respect

d. Ethics

Answer : D

14. The basic idea of e-commerce is that at least two parties, a business and a seller, use network technology to exchange information, products, or services.

Answer : False

15. An intranet can improve a business's bottom line by decreasing the speed of B2B transactions.

Answer : False

16. Facebook, MySpace, LinkedIn, and other social networking sites provide resources and services to millions of users for a small fee.

Answer : False

17. Electronic payment systems, such as PayPal, allow people to make purchases from strangers without revealing their credit card numbers.

Answer : True

18. eBay is an example of the consumer-to-consumer (C2C) e-commerce.

Answer : True

19. B2C is an e-business that uses an intranet to support its internal value chain activities.

Answer : False

20. The Children's Online Privacy Protection Act of 1998 (COPPA) requires consent before collecting, using, or disclosing personal information about children ages 12 and under.

Answer : True

21.1 C2C

Answer : A. An individual selling his used bike to someone else through eBay.

21.2 B2B

Answer : B. Retail clothing store buying dresses from a designer

21.3 B2E

Answer : C. Company posting a new health insurance option for employees

21.4 B2C

Answer : D. Soon-to-be father buying a "How to Raise a Child" book from an online bookstore

**Chapter 14**

Crossword

Mendatar

initial testing conducted by members of the system development team to remove bugs : ALPHA

a specialized form of the age-old process of problem solving : PROGRAMMING

small compiled programs that run inside other applications—typically web browsers : APPLETS

this generation of languages are considered constraint-driven languages : FIFTH

the process of writing a program from an algorithm : CODING

Menurun

a catalog, or directory, that describes all the data flowing through a system : DATADICTIONARY

languages that automate repetitive tasks : MACRO

errors that are violations of the grammar rules of the programming language : SYNTAX

a set of step-by-step instructions that when completed solves a problem : ALGORITHM

testing performed by potential end users who are willing to work with almost finished software : BETA

a program that translates an entire program before passing it on to the computer : COMPILER

Online Study Guide

Question 1

Which of the following techniques is used by programmers to write algorithms in English-like statements to allow for easier coding?

A. Top-down design

B. Flowcharting

C. Pseudocode

D. Testing

ANSWER C

Question 2

When converting to a new system, which approach simply replaces the old system with the new system?

A. Parallel systems

B. Pilot

C. Direct cutover

D. Phase-in

ANSWER C

Question 3

Which of the following is NOT a high-level programming language?

A. FORTRAN

B. COBOL

C. BASIC

D. Assembly language

ANSWER D

Question 4

\_\_\_\_\_\_\_\_\_\_\_\_ is the first computer language designed for developing business software.

A. FORTRAN

B. BASIC

C. COBOL

D. C++

ANSWER C

Question 5

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ is a set of step-by-step instructions that solve a problem.

A. data system

B. computer language

C. algorithm

D. data structure

ANSWER C

Question 6

\_\_\_\_\_\_\_\_\_\_\_\_ is a low-level language and is functionally equivalent to machine language.

A. COBOL

B. Assembler language

C. BASIC

D. Assembly language

ANSWER D

Question 7

\_\_\_\_\_\_\_\_\_\_\_\_ is a programming language designed specifically for children.

A. LOGO

B. POGO

C. PROLOG

D. COBOL

ANSWER A

Question 8

A structured program is built of smaller programs called \_\_\_\_\_\_\_\_\_\_\_\_.

A. modules

B. blocks

C. sections

D. systems

ANSWER A

Question 9

Visual programming languages, such as Visual Basic, make programming easier for \_\_\_\_\_\_\_\_\_\_\_\_.

A. nonprogrammers

B. Web designers

C. office workers

D. managers

ANSWER A

Question 10

A(n) \_\_\_\_\_\_\_\_\_\_\_\_ makes it possible for users to request information from a database using English-like questions.

A. visual language

B. assembler language

C. structured language

D. query language

ANSWER D

Question 11

\_\_\_\_\_\_\_\_\_\_\_\_ is the best-known agile model of program development.

A. Rapid application development

B. Extreme programming

C. Team programming

D. Joint programming

ANSWER B

Question 12

\_\_\_\_\_\_\_\_\_\_\_\_ is a page description language for Web pages.

A. HTML

B. Perl

C. JavaScript

D. AJAX

ANSWER A

Question 13

Two programming tools designed specifically for programming for the cloud are \_\_\_\_\_\_\_\_\_\_\_\_.

A. HTML and Java

B. COBOL and Bloom

C. JavaScript and Mirage

D. Bloom and Mirage

ANSWER D

Question 14

The person who uses information systems directly or uses the information produced by a system is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_.

programmer

office clerk

manager

end user

ANSWER D

Question 15

Database management, graphics, artificial intelligence, and networks are examples of specializations within the field of computer science.

A. TRUE

B. FALSE

ANSWER A

Question 16

The programming process is called an algorithm.

A. TRUE

B. FALSE

ANSWER B

Question 17

Logic errors are caused by errors in the logical structure, which results in differences between what the program is supposed to do and what it actually does.

A. TRUE

B. FALSE

ANSWER A

Question 18

Assembly language makes it easy to reuse features from one program in another program.

A. TRUE

B. FALSE

ANSWER B

Question 19

A compiler is used to translate high-level programs to machine language.

A. TRUE

B. FALSE

ANSWER A

Question 20

It is impossible to eliminate 100 percent of bugs in commercial software.

A. TRUE

B. FALSE

ANSWER A

Question 21.1

System flowchart

ANSWER Graphical depiction of the physical system that exists or is proposed

Question 21.2

Data flow diagram (DFD)

ANSWER Simple graphical depiction of the movement of data through a system

Question 21.3

Data dictionary

ANSWER Catalog of all the data descriptions in a system

Question 21.4

Decision table

ANSWER Shows the rules that apply and which actions to take when certain conditions occur

Question 21.5

Data structure

ANSWER Set of data elements used together

Question 21.6

Computer-aided systems engineering (CASE)

ANSWER Software package that includes charting tools, data dictionary, and code generators

**Chapter 15**

Crossword Puzzles

ACROSS

information that incorporates the relationships among facts, KNOWLEDGE

technique employed by game-playing programs that learn from experience, MACHINELEARNING

technique of a checkers playing program, rapidly repeating a simple operation until it finds an answer, BRUTEFORCE

the underlying meaning of words and phrases, SEMANTICS

computer-controlled machine designed to perform specific manual tasks, ROBOT

the acronym for the field of computer science devoted to making computers perceive, reason, and act as human beings, AI

DOWN

the process of identifying objects and shapes in a photograph, drawing, video, or other visual image, IMAGEANALYSIS

looking ahead at the possibilities generated by each potential move, SEARCHING

allows computer applications to speak as humans, DIGITIZEDSPEECH

a rule of thumb, HEURISTIC

a software program designed to replicate the decision-making process of a human expert, EXPERTSYSTEM

the acronym for software that locates and identifies printed characters embedded in images, OCR

Online Study Guide

1. The underlying meaning of words and phrases is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. heuristics

B. parsing

C. syntax

D. semantics

ANSWER: D.semantics

2. \_\_\_\_\_\_\_\_\_\_\_\_ is a humanoid robot developed by Honda that can walk, run, recognize gestures and faces, and display "intelligent" behaviors.

A. ELIZA

B. MARTIN

C. ASIMO

D. AARON

ANSWER: C.ASIMO

3. \_\_\_\_\_\_\_\_\_\_\_\_ can make knowledge available, even when experts are unavailable.

A. Robots

B. Expert systems

C. An online encyclopedia

D. Databases

ANSWER: B.Expert systems

4. \_\_\_\_\_\_\_\_\_\_\_\_ are used in scientific research, loan processing, stock market analysis, and to detect credit card fraud.

A. Question-answering machines

B. Optical character recognition machines

C. Speech digitizers

D. Neural nets

ANSWER: D.Neural nets

5. The root of the Czech word for "forced labor" is the term \_\_\_\_\_\_\_\_\_\_\_\_.

A. artificial life

B. mechanical arm

C. robot

D. computer

ANSWER: C.robot

6. A(n) \_\_\_\_\_\_\_\_\_\_\_\_ is the point where old models will have to be discarded because of the creation of greater-than-human intelligence.

A. quantum shift

B. singularity

C. evolution

D. paradigm shif

ANSWER: B.singularity

7. AI concepts applied to networks instead of to individual computers is called \_\_\_\_\_\_\_\_\_\_\_\_.

A. distributed intelligence

B. dispersed intelligence

C. NAO intelligence

D. parallel intelligence

ANSWER: A.distributed intelligence

8. \_\_\_\_\_\_\_\_\_\_\_\_ was one of the first software programs that used a limited form of natural language to converse.

A. BABEL

B. LOGO

C. ELIZA

D. RACTER

ANSWER: C.Eliza

9. One reason that games such as checkers and chess were used in early AI work is that they have clearly defined rules and unmistakable goals.

A. True

B. False

ANSWER: A.True

10. Expert systems interact only with robots specifically programmed to communicate with the systems.

A. True

B. False

ANSWER: B.False

11. All computers use natural-language when communicating with humans.

A. True

B. False

ANSWER: B.False

12. In 1950, Alan Turing developed one of the first tests to determine whether computers are intelligent.

A. True

B. False

ANSWER: A.True

13. Since computers are machines, it is not reasonable for psychologists to work with computer scientists on AI projects.

A. True

B. False

ANSWER: B.False

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14.1 Pattern recognition

C. Identifying recurring patterns in input data

14.2 Speech recognition

F. Uses pattern recognition techniques to interpret human speech

14.3 Digitized speech

B. Prerecorded speech used in automated telephone directory assistance, navigation guidance systems in cars, and other instances where a limited vocabulary is practical

14.4 Synthetic speech

E. Speech created by using software to convert text into phonetic sounds

14.5 Neural networks

D. Distributed, parallel computing systems inspired by the structure of the human brain

14.6 Optical character recognition (OCR) software

A. Locates and identifies printed characters in images and converts them to text codes, allowing a computer to "read" text