

INFORMATION TECHNOLOGY CONCEPTS (56)

—OPEN EVENT—

Regional— 2010

TOTAL POINTS _____ **(500)**

Failure to adhere to any of the following rules will result in disqualification:

- 1. Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.***
- 2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.***
- 3. Electronic devices will be monitored according to ACT standards.***

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Multiple Choice: Please choose the best answer from those provided and mark it on your Scantron sheet.

1. A _____ is an input device that converts printed material to a form the computer can use.
- a. mouse
 - b. keyboard
 - c. microphone
 - d. scanner



Figure 1-4

2. Factors that influence a consumer's purchasing decision for laptops like the one Figure 1-4 includes _____.
- a. size
 - b. screen size
 - c. capabilities of available software
 - d. all of the above
3. Power users often work with _____, combining text, graphics, audio, and video into one application.
- a. multimedia
 - b. multilateral
 - c. multidimensional
 - d. multitask
4. One type of system software is a(n) _____ system, which is a set of programs that coordinates all the activities among computer hardware devices.
- a. utility
 - b. hardware
 - c. operating
 - d. software

5. Resembling a letter-sized slate, the ____ PC is a special type of notebook computer that allows users to write or draw on the screen.
- a. Tablet
 - b. Letter
 - c. Slate
 - d. Matrix



Figure 2-1

6. In Figure 2-1, which shows common ways to access the Internet, a(n) ____ has many members-only features, such as special content and services, in addition to providing Internet access.
- a. wireless Internet service provider (WISP)
 - b. online service provider (OSP)
 - c. regional ISP
 - d. national ISP
7. Search engines ____.
- a. are particularly helpful in locating pages about certain topics
 - b. require that you enter search text
 - c. allow you to use operators to refine a search
 - d. all of the above
8. A wireless portal is a portal specifically designed for ____.
- a. desktop computers
 - b. mainframe computers
 - c. Internet-enabled mobile devices
 - d. supercomputers

9. _____ is the process of transferring data in a continuous and even flow, which allows users to access and use a file while it is transmitting.
- a. Casting
 - b. Streaming
 - c. Surfing
 - d. Flowing
10. In a newsgroup, a _____ consists of the original article and all subsequent related replies.
- a. magnet
 - b. link
 - c. flame
 - d. thread
11. A(n) _____ is a graphical element that a user activates to cause a specific action to take place.
- a. button
 - b. icon
 - c. menu
 - d. title bar
12. A(n) _____ is an instruction that causes a program to perform a specific action.
- a. dialog box
 - b. window
 - c. command
 - d. title bar
13. The programs within a software suite (for personal use) use a _____.
- a. different interface and have completely different features
 - b. different interface but share some common features
 - c. similar interface but have completely different features
 - d. similar interface and share some common features
14. A(n) _____ is the basic storage unit in memory.
- a. byte
 - b. address
 - c. kilobyte
 - d. RAM
15. _____ is a cache separate from the processor chip on the motherboard.
- a. L1 cache
 - b. L2 cache
 - c. L3 cache
 - d. L4 cache
16. The COM port (short for communications port) on the system unit is one type of _____.
- a. serial port
 - b. parallel port
 - c. USB port
 - d. SCSI port
17. Bluetooth technology is _____.
- a. similar to a USB port in that it can connect multiple types of devices that require faster data transmission speeds
 - b. a special high-speed parallel port that allows users to attach peripherals such as disk drives and printers
 - c. a special type of serial port that connects the system unit to a musical instrument
 - d. an alternative to IrDA that uses radio waves to transmit data between two devices

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18. A command is _____.
a. a collection of unprocessed text, numbers, images, audio, and video
b. a series of instructions that tells a computer what to do and how to do it
c. an instruction issued by replying to a question that is displayed
d. an instruction that causes a program to perform a specific action
19. A(n) _____ uses devices that emit and sense light to detect the mouse's movement.
a. optical mouse
b. mechanical mouse
c. audio mouse
d. ergonomic mouse
20. A(n) _____ is a small metal or plastic device that looks like a tiny pen, but uses pressure instead of ink.
a. utensil
b. digital pen
c. implement
d. joystick
21. PDAs ship with a basic _____, which is the primary input device.
a. keyboard
b. trackball
c. stylus
d. touch screen
22. The primary input device for a _____ is a pressure-sensitive digital pen, which allows users to write on the device's screen.
a. Tablet PC
b. notebook computer
c. digital camera
d. desktop computer
23. Printer resolution is measured by the number of _____ a printer can print.
a. dots per inch (dpi)
b. characters per inch (cpi)
c. pixels per inch (ppi)
d. bits per inch (bpi)
24. _____ software enables users to convert the image from a fax modem to text and then edit it.
a. Optical mark recognition (OMR)
b. Optical character recognition (OCR)
c. Magnetic ink character recognition (MICR)
d. All of the above
25. A _____ is the smallest unit of data a computer can process.
a. bit
b. character
c. field
d. record
26. If the lowest annual fee at a discount warehouse is \$20.25 and the highest is \$55.50, a(n) _____ on the Annual Fee field ensures it is a value between \$20.25 and \$55.50.
a. range check
b. completeness check
c. consistency check
d. alphabetic/numeric check

27. A(n) ____ program interacts with a DBMS, which in turn interacts with the database.
- a. before image
 - b. front-end
 - c. after image
 - d. back-end
28. A DBMS uses the ____ to perform validation checks.
- a. data server
 - b. data mart
 - c. data warehouse
 - d. data dictionary
29. In a log, a DBMS places ____.
- a. a copy of a record prior to a change
 - b. the actual change to a record
 - c. a copy of a record after a change
 - d. all of the above

```
SELECT FIRST NAME, LAST NAME, ANNUAL FEE, ANNUAL FEE * .05
AS EARLY PAY DISCOUNT
FROM MEMBER, MEMBERSHIP PLANS
WHERE MEMBER.MEMBERSHIP CODE =
MEMBERSHIP PLANS.MEMBERSHIP CODE
ORDER BY LAST NAME
```

First Name	Last Name	Annual Fee	EarlyPayDiscount
Milton	Brewer	\$90.00	\$4.50
Louella	Drake	\$40.00	\$2.00
Elena	Gupta	\$55.00	\$2.75
Adelbert	Ruiz	\$25.00	\$1.25
Benjamin	Tu	\$25.00	\$1.25

Figure 10-3

30. Most ____ database products for servers and mainframes include SQL, an example of which is shown in Figure 10-3, above.
- a. relational
 - b. object-oriented
 - c. multidimensional
 - d. all of the above
31. Software piracy continues for all of the following reasons *except* ____.
- a. software piracy drives down the price of software for all users
 - b. in some countries, legal protection for software does not exist
 - c. software piracy is a fairly simple crime to commit
 - d. many buyers believe they have the right to copy software they have paid for

32. ____ is the process of converting readable data into unreadable characters to prevent unauthorized access.
- a. Decryption
 - b. PGP
 - c. Encryption
 - d. Digital signing
33. A(n) ____ copies all of the files in a computer.
- a. full backup
 - b. incremental backup
 - c. differential backup
 - d. selective backup
34. With a three-generation backup policy, the grandparent is the ____.
- a. most recent copy of the file
 - b. second oldest copy of the file
 - c. oldest copy of the file
 - d. original file
35. A(n) ____ test measures the performance of hardware or software.
- a. benchmark
 - b. prototype
 - c. mockup
 - d. implementation

True/False

Indicate whether the statement is true or false.

36. When a computer is purchased, it seldom has any software preinstalled on its hard disk.
37. Because of the logical approach that spreadsheet software has for organizing data, many people use this software to organize and present nonfinancial data, as well as financial data.
38. A heat sink uses a continuous flow of fluid to transfer the heated fluid away from the processor to a radiator-type grill.
39. Manufacturers state the size of memory chips and storage devices in terms of the number of bytes the chip or device has available for storage.
40. Because of their small size and versatility, some consumer electronics products such as digital cameras use PC Cards.
41. To move the pointer using a trackball, slide a fingertip across the surface of the pad.
42. To send a text message, you type a short message, typically fewer than 160 characters, to another smart phone typically by pressing buttons on the telephone's keypad.
43. With a test, an OMR device first scans the answer key to record correct answers based on patterns of light, then scans the remaining documents and matches their patterns of light against the answer key sheet.
44. Today, all broadcast stations must transmit digital signals, as mandated by the FCC.
45. E-forms seldom use a means to secure data while it is transported across a network.

46. A surge protector absorbs small overvoltages — generally without damage to the computer or equipment.
47. Systems analysts and other IT professionals use several techniques to gather data and information.
48. In the preliminary investigation, the systems analyst defines the problem or improvement accurately.
49. While studying the current system and identifying user requirements during detailed analysis, the systems analyst collects little data or information.
50. In developing a computer security plan, the CSO should recognize that some degree of risk is unavoidable



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KEY

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Judges/Graders:

Please double-check and verify all scores!

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MULTIPLE CHOICE

1. D
2. D
3. A
4. C
5. A
6. B
7. D
8. C
9. B
10. D
11. A
12. C
13. D
14. A
15. C
16. A
17. D
18. D
19. A
20. B
21. C
22. A
23. A
24. B
25. A

26. A
27. B
28. D
29. D
30. A
31. A
32. C
33. A
34. C
35. A

TRUE/FALSE

36. F
37. T
38. F
39. T
40. T
41. F
42. T
43. T
44. T
45. F
46. T
47. T
48. T
49. F
50. T