

بسم الله الرحمن الرحيم  
اللهم صل على محمد و آل محمد



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برای دریافت سوالات دروس دیگر  
می توانید به آدرس زیر مراجعه کنید

**1. A device for connecting dissimilar networks:**

- |                           |                                  |
|---------------------------|----------------------------------|
| 1. Internet address       | 2. Gateway                       |
| 3. User Datagram Protocol | 4. Transmission Control Protocol |

**2. A combination of text with sound, video, animation and graphics**

1. Multimedia    2. Expert system    3. Telecommute    4. Information superhighway

**3. A process of filtering through large amounts of raw data for useful information**

1. Data mining    2. AI    3. Cleansed data    4. Data warehouse

**4. The core of an operating system that handles memory allocation, talks to hardware devices and makes sure everything keeps running**

- |                |                             |
|----------------|-----------------------------|
| 1. Kernel      | 2. Free Software Foundation |
| 3. Source code | 4. Open Source              |

**5. A system that allows a user to interact with a computer using a combination of inputs such as speech recognition, hand writing recognition, text to speech and etc.**

- |                      |                         |
|----------------------|-------------------------|
| 1. GUI               | 2. Multimodal interface |
| 3. Intelligent agent | 4. The Intelligent Room |

**6. Common enterprise resource planning tool**

1. Bandwidth    2. Broadband    3. Data centre    4. SAP

**7. Standard used by software that manages communication exchanges between computers on the Internet**

- |                        |                                  |
|------------------------|----------------------------------|
| 1. Internet address    | 2. Look-up table                 |
| 3. r Datagram Protocol | 4. Transmission Control Protocol |

**8. An email transfer process in which the receiving computer initiates the connection.**

1. SMTP    2. Push    3. POP    4. IMAP

**9. Meta-languages is:**

1. Extensible markup language
2. A coding system used for structuring and formatting documents  
Data about data
3. An example of a page presentation Language
4. A language from which you can create other languages

**10. ADSL is:**

1. Digital channel used to carry ISDN signaling and supervisory information to the network
2. Device installed on a PC to allow it to receive ISDN signals
3. Addressed Digital Subscriber Line
4. Asymmetric Digital Subscriber Line

**11. To decrypt a received message**

1. sender's private key
2. trusted issuer's private key
3. the recipient's private key
4. the recipient's public key

**12. An OOP property that enables different objects to deal with the same instruction in different ways**

1. Encapsulation
2. Object
3. Square
4. Polymorphism

**13. A telephone that can translate English into various languages in real-time**

1. Smart phone
2. Intelligent agent
3. Rocket science
4. Supercomputer

**14. The students are still waiting for their ..... into the computer Science program.**

1. acceptance
2. accepted
3. acceptable
4. acceptably

**15. Some people working in computer installations aren't very ..... because they are shy.**

1. communication
2. communicable
3. communicative
4. communicably

**16. Very often manufacturers provide ..... representations of the internal workings of a computer.**

1. diagram
2. diagrammatic
3. diagrammatically
4. diagrammed

**17. Which one is not the synonym of others:**

1. nimble
2. swift
3. frail
4. agile

**18. Which one is the antonym of others:**

1. intricate
2. critical
3. sophisticated
4. complex

**19. The promotion he received was an ..... of his excellent work.**

1. tranquility
2. acknowledgment
3. poisonous
4. depiction

**20. The ..... of shock waves determines the damage that occurs during an earthquake.**

1. survey
2. complex
3. protected
4. magnitude

21. The ..... economy is expected to continue growing quickly.  
 1. robust                      2. bias                      3. feasible                      4. Conservation
22. The directors ..... the actors before the performance.  
 1. exaggerated              2. indicated                      3. primed                      4. eluded
23. Although working closely with the government, all businesses function .....  
 1. haphazardly              2. autonomously              3. agility                      4. albeit
24. The young Einstein was brilliant; a prodigy in physics and math and an accomplished violinist.  
 1. a handy                      2. a skilled                      3. a practiced                      4. a well-known
25. People could ..... write their programs in L2 and have the computer execute them directly.  
 1. readily                      2. sample                      3. simple                      4. nervously

**Translate These Paragraphs:**

1. Computers have circuits which can make decisions. The kinds of decisions which computer circuits can make are not of the type: 'Who would win a war between two countries?' or 'Who is the richest person in the world?' Unfortunately, the computer can only decide three things.

2. Source code is important. It's the original from which compiled programs are generated. If you don't have the source code to a program, you can't modify it to fix bugs or add new features. Most software companies won't sell you their source code, or will only do so for an eye watering price, because they believe that if they make it available it will destroy their revenue stream.

3. XML, unlike HTML, is concerned with the identity, meaning and structure of data. XML is extensible because it lets website developers create their own set of customized tags for documents. This ability to define your own tags is the main feature of XML and it is what gives developers more flexibility.

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4. A second key feature of OOP is inheritance. This allows OOP developers to define one class of objects, say 'Rectangles' and a specific instance of this class, say 'Squares' (a rectangle with equal sides). Thus, all properties of rectangles - 'Has 4 sides' and 'Contains 4 right angles' are the two shown here are automatically inherited by Squares.

Choose a, b, c, or d which best completes each item.

1. Which of the following statements is **False**?
  - a. All computers accept and process information in the form of instructions and characters.
  - b. There are many different devices used for feeding information into a computer.
  - ✓ c. A computer can store or handle any data even if it hasn't received information to do so.
  - d. Not all computers can perform arithmetic operations, make decisions, and communicate in some way with the user.
2. In which statement the second word is not a synonym for the first word?
 

<u>First word</u>	<u>Second word</u>
a. designed .....	devised
b. solve .....	figure out
✓ c. a few .....	a great deal
d. machine .....	device
3. A computer is limited in its ability by the ..... of man.
  - a. imagination
  - b. imaginative
  - c. imaginable
  - d. imaginary
4. In which statement the second word is not an antonym for the first word?
 

<u>First word</u>	<u>Second word</u>
a. run well .....	malfunction
✓ b. job .....	task
c. slowly .....	suddenly
d. exceptional .....	typical
5. Which of the following statements matched with the word "decision-making operations"?
  - a. All the equipment needed input, process and output information.
  - b. Can solve different types of problems.
  - c. Decides what the program is to be.
  - d. Those which compare numbers.
6. What is the synonym for the word "infer"?
  - a. disregard
  - b. deduce
  - c. overlook
  - d. dispense with
7. .... plexing is when many electrical signals are combined and carried on only one optical line.
  - ✓ a. Multi-
  - b. Semi-
  - c. Inter-
  - d. Auto-
8. Which of the following statements is **True**?
  - a. A mainframe is the type of computer that can sit on top of a desk.
  - b. The analog computer does its calculations one step at a time.
  - c. The digital computer continuously works out calculations.
  - ✓ d. Mainframes are huge powerful machines whose peripheral equipment takes up a lot of space.
9. It is the ..... consensus of opinion that computers have improved the quality of life.
  - ✓ a. generality
  - b. generally
  - c. generalize
  - d. general

10. What is the antonym for the word "worsen"?
- a. get worse      b. deteriorate      c. degenerate      d. improve
11. Learning a computer language is ..... difficult ..... it seems
- a. less than      b. fewer / than      c. not as / as      d. not as much as
12. Which of the following statements is False?
- a. The CPU is made up of four components.  
b. The CPU is responsible for all the activities taking place within a computer.  
c. The processor cannot operate on any information if that information is not in main storage.  
d. Only after the data has been processed by the CPU can results be transmitted to an output device.
13. .... computers are used for printing newspapers.
- a. Now      b. At present      c. For the time being      d. At the moment
14. There should be a ..... improvement in your English at this point in the course.
- a. notice      b. noticeably      c. noticeable      d. noticed
15. Which of the following statements matched with the word "control unit"?
- a. Directs movement of information between memory and arithmetic unit.  
b. Does the decision-making operations.  
c. Breaks down the coded information to be handled.      d. Chooses the instructions.
16. .... to their speed, computers are accurate and can do repetitive operations over and over again without becoming tired or bored.
- a. Moreover      b. Besides      c. Furthermore      d. In addition
17. Which of the following statements is False?
- a. Core memory uses small metal rings which can be magnetized or unmagnetized.  
b. The state of the core can be represented by either 0 or 1.  
c. Semiconductor memory was developed before core memory and after bubble memory.  
d. Bubble memory is smaller than a chip.
18. Which of the following information matched with the word "spooling"?
- a. A kind of type writer.  
b. Transfer information from cards to tape or disk.  
c. Used if data is lost.  
d. Storage medium
19. .... plastic pieces are stuck onto the tape to mark its beginning.
- a. Reflective      b. Reflection      c. Reflector      d. Reflect
20. Which of the following statements is False?
- a. Not all disks are made from a rigid material.  
b. Bits are magnetized grooves in the surface of a disk.  
c. Magnetic disks are better than magnetic tapes only because they provide large amounts of storage.  
d. Information on cylinders is accessed one track at a time.
21. Which of the following words matched with the information "one cylinder for every character position"?
- a. laser printer      b. chain      c. drum      d. impact
22. In which statement the second word is not a synonym for the first word?
- | <u>First word</u> | <u>Second word</u> |
|-------------------|--------------------|
| a. distort        | remove             |
| b. get            | obtain             |
| c. ease           | facility           |
| d. extensive      | limited            |

23. Which of the following statements is **False**?
- The binary system has only two digits.
  - The hexadecimal system is an economical way of representing the binary system.
  - In the decimal system, the 0 is called a bit.
  - The digital computer uses the decimal number system.
24. Our maths ..... explained to us the principles of binary arithmetic.
- instruction
  - instructor
  - instruct
  - instructed
25. Which of the following information matched with the word "object program"?
- To solve a particular problem.
  - Directs the processes of the computer CPU, and peripherals.
  - Connects routines with programs in memory.
  - Program translated to machine code.

Fill in the blanks with the appropriate form of the word given.

- permit
  - It is usually not ..... to smoke in a computer installation.
  - Computer ..... people to use their time more effectively.
  - Building ..... is usually required before starting any renovations to a building for a computer department.
- decide
  - The ..... to continue space exploration will cause a lot of expense.
  - A programmer ..... what the computer is to do, and without the program the computer cannot process the necessary information.
  - It cannot be ..... yet what success fiber optics will have in computer technology.

3. Fill in the blanks with the following words.

cylinder	hard disk	fixed-head
platters	pack	recording head
cartridge	diskette	moving-head
data pack		

- Floppy disks which are made from plastic are also called disk.....
- A ..... is accessed by all the recording heads acting at once.
- Disks which are not made from flexible plastic are called .....
- When more than one platter are piled on top of each other it is referred to as a .....
- The ..... access information from either side of a disk.
- ..... can be either single or multiple.
- A ..... has a single platter.
- Hard disks can be subdivided into two kinds: ..... and .....
- When the recording heads are included with the platters, it is called a .....

4. Translate the following passage into Farsi.

Main storage and the CPU are connected to a console, where manual control operations can be performed by an operator. The console is an important, but special purpose, piece of equipment. It is used mainly when the computer is being started up, or during maintenance and repair. Many mini and micro systems do not have a console.



Choose a , b, c or d which best completes each item.

۱. A chip is .....
  - a. an instrument used for counting.
  - b. the circuitry of fourth-generation computers.
  - c. a branch of mathematics.
  - d. invented by Americans in ۱۹۴۴.
۲. There can be many ..... involved in setting up a computer in an old building.
  - a. complication
  - b. complicating
  - c. complicatedly
  - d. complicate
۳. What is the antonym for the word "immovable"
  - a. unmovable
  - b. fix
  - c. portable
  - d. take away
۴. When the computer is down it needs to be .....
  - a. repaired
  - b. repair
  - c. repairs
  - d. is repaired
۵. General-purpose computers .....
  - a. are all the equipment needed input, process and output information.
  - b. decide what the program is to be.
  - c. produce a payroll very fast.
  - d. can solve different types of problems.
۶. Turnkey systems are .....
  - a. the input/output and secondary memory devices.
  - b. the physical electronic and electromagnetic devices.
  - c. the hardware/software packages.
  - d. the computers.
۷. What is the synonym for the word "continue"
  - a. stop
  - b. resume
  - c. come to an end
  - d. end
۸. Find appropriate sentence which is completed with the word "generality".
  - a. .... purpose computers are larger than minicomputers.
  - b. It is the .....consensus of opinion that computers have improved the quality of life.
  - c. Minicomputers are .....cheaper than mainframes.
  - d. It is often easier to .....than to talk about specifics.
۹. Which of the following words match with the statement "where operator can manually operate the computer"
  - a. minicomputer
  - b. cartridge
  - c. miniperipherals
  - d. console
۱۰. What is the synonym for the word "connect"
  - a. hook up
  - b. separate
  - c. break away
  - d. take apart

11. It is true that .....
- The central processing unit is made up of six components.
  - Secondary memory and internal memory are located in the same place in the computer system.
  - The control unit directs the flow of information within the processor.
  - The processor cannot operate on any information if that information is not in main storage.
12. Whether one is writing computer science related information or not, the use of ..... is very important.
- connection
  - connect
  - connecting
  - connective
13. What is the antonym for the word "haphazard"
- regular
  - random
  - chaotic
  - jumbled
14. A logic unit .....
- does the calculations necessary to solve the problem.
  - temporarily holds results before transferring to memory.
  - does the decision-making operations.
  - produces timing marks.
15. It is true that .....
- Minicomputers and microcomputers have a similar memory capacity.
  - The CPU can easily access information from internal storage.
  - Disks and tapes can be stored in a library.
  - computers can process information even if complete programs are not put in internal storage.
16. Virtual storage .....
- refers to memory
  - sometimes called primary memory
  - are storage locations in internal storage
  - hooking up secondary memory devices onto memory to increase their capacity
17. Which of the following statements is false.
- Semiconductor memory was developed before core memory and after bubble memory.
  - Core memory uses small metal rings which can be magnetized or unmagnetized.
  - The state of the core can be represented by either 0 or 1.
  - Early computer memories has less storage capacity than newer ones.
18. The programmer ran his program after ..... all the bugs from it.
- elimination
  - eliminating
  - eliminate
  - eliminator
19. Which of the following is an appropriate word for the definition "a bit to detect errors"
- reel
  - hub
  - parity
  - BPI
20. Which of the following statements is true.
- Disks packs are fixed-head disks.
  - To access information, the recording heads move from one groove to another.
  - Magnetic disks are better than magnetic tapes only because they provide large amounts of storage.
  - Not all disks are made from a rigid material.

٢١. What is the synonym for the word "disadvantage".

- a. draw back      b. gain      c. benefit      d. lead

٢٢. Monochromatic is best described as .....

- a. TV screen of the computer      b. Shades of the same colour  
c. Light and dark of the same colour      d. Pictures with motion

٢٣. Which of the following statements is false.

- a. Coding sheets are used to writing programs.  
b. The most important part of problem solving is defining the problem clearly.  
c. It is a good idea to test the program before adding the data.  
d. Block diagrams cannot show relationships.

٢٤. Can you describe the most important .....of the computer?

- a. characterize      b. characteristic      c. characterized      d. characteristically

٢٥. Which of the following information explain the word "compiler"

- a. computer needs one for each high-level language.  
b. directs the processes of the computer CPU, and peripherals.  
c. connects routines with programs in memory.  
d. to solve a particular problem.

سؤالات تشریحی

**Choose the appropriate form of the words to complete the sentences.**

١. Interchange, interchange able, inter changeably, interchanged.

- a. The word 'arithmetic-logic' and 'arithmetic-logical' can be used .....  
b. There is often an ..... of ideas among computer scientists.  
c. There is a big difference between an input and output. These cannot be .....

٢. Organization, organize, organized, organizing, organizer

- a. Blocks are .....in terms of files.  
b. The efficiency of a computer centre depends partly on its ..... and personnel.  
c. The computer centre is planning to .....gvided tours of the computer room.

٣. Fill in the blanks with the following words.

- microcomputer      semiconductor      chip  
microprocessor      circuit board      primary memory  
minicomputer      micro      memory

١. .... are often referred as .....for short.

٢. A .....system is composed of ....., .....and peripheral equipment.

٣. The ..... of a microcomputer is usually built as a single .....device known as a .....

٤. Micro computers have small .....and cannot be hooked up to as many peripherals as .....

Δ . A few ..... are normally used for the processor, memory and electronic controls of ..... peripherals for microcomputers.

¶. Translate the following passage into Farsi:

The function of the control unit within the central processor is to transmit coordinating control signals and commands the control unit is that portion of the computer that directs the sequence or step-by-step operations of the system, selects instructions and data from memory, interprets the program instructions, and controls the flow between main storage and the arithmetic-logical unit.

1. Which of the following statements is False?
  - a. Computers can still be usefull machines even if they can't communicate with the user.
  - b. All computers accept and process information in the form of instructions and characters.
  - c. There are many different devices used for feeding information into a computer.
  - d. The information necessary for solving problems is found in the memory of the computer.
2. In which statement the second word is an synonyms for the first word:
  - a. predecessors                      contemporaries
  - b. tiny                                      large
  - c. reject                                    accept
  - d. a way                                      a mean
3. Which of the following statements matched with the word "chip"?
  - a. Used in mathematics.
  - b. Circuitry of fourth-generation computers.
  - c. An instrument used for counting.
  - d. A branch of mathematics.
4. Computer ----- is a fast growing discipline.
  - a. technology                              b. technological
  - c. technologist                              d. technologically
5. Which of the following statements is True?
  - a. A computer can do anything until it has been programmed.
  - b. Computers do not usually make mistakes unless they break down.
  - c. A computer can think and solve problems by itself.
  - d. A computer is a single-purpose machine in that it cannot be programmed to solve various types of problems
6. In which statement the second word is an antonyms for the first word.
  - a. infers                                      implies
  - b. joined                                      integrated
  - c. area                                        field
  - d. well                                        poorly
7. The most commonly used language of programming in the business community is ----- .
  - a. analog                                      b. hybrid computer
  - c. digital.                                      d. mainframe

8. Memory and primary storage can be used inter- -----.
- changing
  - change
  - changeable
  - changeably
9. Which of the following statements matched with the word "console"?
- processing unit of microcomputer
  - where operator can manually operate the computer
  - internal storage
  - attached to minicomputers
10. Which of the following statements is True?
- The arithmetic-logical unit of the processor is responsible for the interpretation of program instructions.
  - The central processing unit is made up of three components.
  - New information are first loaded into internal memory, so it takes more time for computers to solve the problems.
  - Secondary memory and internal memory are located in the same place in the computer system.
11. You should have a good basic understanding of computers ..... you finish this reading course.
- later
  - by the time
  - eventually
  - not the same as
12. BASIC is probably ---- computer language to learn.
- the least difficult
  - the most difficult
  - the least challenging
  - the most challenging
13. Which of the following words matched with the statement "hooking up secondary memory devices onto memory to increase their capacity"?
- internal storage
  - sequential devices
  - real storage
  - virtual storage
14. A programmer usually has a ..... as well as logical mind.
- creation
  - created
  - create
  - creative
15. In which statement the second word is a synonym for the first word.
- major                      minor
  - frequently used          common
  - presence                    absence
  - vertically                  horizontally

16. The control unit, the arithmetic-logical unit and memory are the three parts that ..... the CPU..
- divide
  - comprises
  - constitute
  - classify
- 17. Which of the following statements matched with the word “chain”?
- characters move sideways
  - uses dry ink powder
  - uses special paper which is treated chemically
  - heat used to print characters on paper
- 18. Which of the following statements is True?
- all plotters depend on a moving pen.
  - plotters are considered peripheral devices but terminals are not.
  - blinking is one of the features which display terminals are incapable of.
  - both interactive terminals and plotters have to be on-line at all times.
19. ----- the chip made it possible for minicomputers and microcomputers to be invented.
- develop
  - developed
  - developing
  - developer
20. Which of the following words matched with the statement “pictures with motion”?
- plotters
  - dual-density
  - dynamic graphics
  - display screen
21. At the rate computer technology is growing, today’s computes ----- obsolete by 2020.
- could not
  - cannot
  - impossible
  - might be
- 22. Which of the following statements is False?
- An algorithm is a sequence of instructions used to solve a problem.
  - Coding sheets are used for writing programs.
  - All problems are equally difficult to solve.
  - It is a good idea to test the program before adding the data.
23. Which of the following statements matched with the word “application program”?
- to solve a particular problem
  - program translated a machine code
  - directs the processes of the computer CPU, and peripherals
  - connects routines with programs in memory

- 24. Multiprogramming is an example of -----.
- a. time sharing                      b. real time  
c. batch                                d. on line
- 25. A machine which is incapable of thinking but follows instructions is called ----- .
- a. coding machine                      b. robot  
c. register                                d. minicomputer

Fill in the blanks with the appropriate form of the word given.

1- measure

- a. The analog computer is essentially used for problems involving -----.
- b. Because computer equipment is often bulky, the area used for a computer installation must be ----- out carefully.
- c. The number of employee a computer company has can be seen as a ----- of its success in the business world.

2- design

- a. Due to the advances in computer technology, computer ----- are faced with a more challenging job.
- b. Computers are ----- to process information accurately and quickly.
- c. Computer architects are constantly trying to improve on the ----- of computers. "

3- Fill in the blanks with following words:

microcomputer      minicomputer    circuit board    chip                      memory  
microprocessor      semiconductor    micro              primary memory      flowchart

1. ----- are often referred to as ----- for short.
2. A ----- system is composed of a ----- , ----- and peripheral equipment.
3. The ----- of a microcomputer is usually built as a single ----- device known as ----- .
4. Microcomputers have small ----- and cannot be hooked up as many peripherals as -----.
5. A few ----- are normally used for processor, memory and electronic controls of peripherals for microcomputers. The .....access information from either side of a disk.
6. A ----- is either a group of exact sentences to solve a problem or a block diagram.

4-Translate the following passage into Farsi.

Flowcharting is one of the first things a student programmer is taught, because a flowchart shows how a person thinks about a problem. In other words, it is through this that a new programmer reveals his or her logical and analytical ability, which is a must in programming.



1. Which one is different from others:  
 a. enormous      b. gigantic      ✓c. titanic      d. tiny
2. Chips are more ..... when one is on a diet.  
 a. baffling      ✓b. temped      c. enticing      d. astounding
3. The term processor is ..... central processing unit.  
 a. the same than      b. the same      ✓c. the same as      d. similar
4. The troubled executive ..... his control of the company.  
 a. relinquished      b. tempted      c. enticed      d. conformed
5. The job of a computer operator is to ..... the various machines in a computer installation.  
 a. operation      ✓b. operate      c. operator      ✓d. operating
6. Students' lack of understanding of the basic concepts in computer science may ..... the instructor to restructure the course.  
 a. necessity      b. necessitate      c. necessary      ✓d. necessities
7. Very often manufacturers provide ..... representations of the internal workings of a computer.  
 a. diagram      ✓b. diagrammatic      c. diagrammatically      d. diagrammed
8. The complete description of the logical structure of data is called the schema and the description of the parts, the .....schema.  
 a. mono      b. inter      ✓c. sub      d. bi
9. With the ..... of computers, many tasks have been made easier.  
 a. advent      b. disruptive      c. agile      d. acclaim
10. A computing tool that tries to operate in a way similar to the human brain, means .....  
 a. Data mining      b. Data warehouse      c. Cleansed data      ✓d. Artificial Intelligence
11. A computer has often been referred to as a problem .....  
 ✓a. solution      b. solve      c. solver      d. solvable
12. It is sometimes very ..... to explain computer concepts.  
 a. complication      b. complicate      c. complicating      d. complicated

13. Standard used by software that manages communication exchanges between computers on the Internet, means:
- a. Internet address
  - b. Resolution Protocol
  - c. User Datagram Protocol
  - d. Transmission Control Protocol
14. Hackers may ..... pretending to be from your company and ask for your password.
- a. break into
  - b. get into
  - c. hack into
  - d. keep into
15. Internet system designed to provide free, interactive access to vast resources for people all over the world, is:
- a. Multimedia
  - b. Expert system
  - c. Information superhighway
  - d. Telecommute
16. A telephone that can translate English into various languages in real-time, means:
- a. Smart phone
  - b. Intelligent agent
  - c. Rocket science
  - d. Supercomputer
17. An OOP property that allows data and program instructions to be bundled into an object.
- a. Polymorphism
  - b. Object
  - c. Menu
  - d. Encapsulation
18. He tried to ..... the system without knowing the password.
- a. closing down
  - b. hacking into
  - c. logging on
  - d. program
19. Windows allows you ..... two different folders at the same time.
- a. to display
  - b. displaying
  - c. display
  - d. that display
20. With the ..... of computers, many tasks have been made easier.
- a. haphazardly
  - b. advent
  - c. disruptive
  - d. adverse
21. Transfer data from a client device to a server computer.
- a. Intelligent agent
  - b. Rocket science
  - c. Supercomputer
  - d. Upload
22. The user is aware of the effects of different applications programs ..... operating systems are invisible to most users.
- a. in addition
  - b. although
  - c. because
  - d. such as
23. We look forward ..... cheaper and faster computers.
- a. to have
  - b. having
  - c. to having
  - d. have
24. The ..... of the hazardous gas made it difficult to live in the house.
- a. intrude
  - b. intruder
  - c. intrusive
  - d. intrusion