

نام درس: زبان تخصصی

تعداد سؤال: نسی ۳۱ تکمیلی -- تشریحی ۴

رشته تحصیلی: گرایش: مهندسی کامپیوتر - مهندسی فناوری اطلاعات - طرح تجميع، بخش فناوری اطلاعات

زمان امتحان: تستی و تکمیلی ۶۰ دقیقه تشریحی ۳۰ دقیقه

کد درس: مهندسی کامپیوتر: ۱۱۱۵۰۷۴ - مهندسی فناوری اطلاعات: ۱۲۲۵۰۰۸ - طرح تجميع، بخش فناوری اطلاعات: ۱۲۲۵۰۰۸

- The basic idea of a computer is that we can make the machine do what we want by inputting ..... that turn certain switches on and turn others off, or that magnetize or do not magnetize the cores.
  - numbers
  - characters
  - signals
  - data
- which of the following statements is false?
  - All computers accept and process information in the form of instructions and characters.
  - The information necessary for solving problems is found in the memory of the computer.
  - There are many different devices used for feeding, information into a computer.
  - Computers can make any type of decision they are asked to.
- In which set of two words, the second word is not the synonym of the first one?
  - fundamental -- basic
  - board-wide
  - large -- tiny
  - accomplishment -- achievement
- All computers have several characteristics in common, regardless of make or design information, in the form of ..... and data, is given to the machine, after which the machine acts on it and a result is then returned.
  - records
  - figures
  - facts
  - instructions
- The job of a computer operator is to ..... the various machines in a computer installation.
  - operating
  - operate
  - operator
  - operation
- In which set of two words, the second word is the synonym of the first one?
  - narrow -- broad
  - useless -- useful
  - segregate -- integrate
  - caliber -- quality
- CRT terminals are very useful .....active devices for use in airline reservations.
  - multi-
  - mini-
  - inter-
  - prim-
- The success or failure of any computer depends on the .....with which the hardware and software components are selected and blended.
  - power
  - price
  - quality
  - skill

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9. Which of the following statements is true?

- a. Desktop organizers are programs that require desktop computers.
- b. Computers are sometimes used to monitor systems that previously needed human supervision.
- c. The use of computers prevents people from being creative.
- d. Computer users do not have much influence over the way that computing develops.

10. The term "Expert system" means:

- a. Software that enables computers to 'think' like experts.
- b. Use computers to stay in touch with the office while working at home.
- c. Multimedia materials with a combination of educational and entertainment content.
- d. A combination of text with sound, video, animation and graphics.

11. In which set of two words, the second word is the antonym of the first one?

- a. large -- wide
- b. complex -- intricate
- c. intrigue -- repel
- d. contemporary -- modern

12. The power of data mining is being used for many purposes, such as analyzing Supreme Court decisions, discovering patterns in health care, pulling stories about competitors from newswires, resolving .....in production processes and analyzing sequences in the human genetic makeup.

- a. bottlenecks
- b. difficulties
- c. worries
- d. problems

13. The term "Data mining" means:

- a. Storage method of archiving large amounts of data to make it easy to access
- b. Data free from duplicate and erroneous information
- c. A process of filtering through large amounts of raw data for useful information
- d. A computing tool that tries to operate in a way similar to the human brain

14. The word "creep" means:

- a. to uncover
- b. to move lowly and quietly close to the ground
- c. to make ready
- d. to change from original shape or condition

15. As more and more people got to know about Linux, some of them began to port the Linux .....to run on non-standard computers.

- a. Software
- b. System
- c. Kernel
- d. Program

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16. The phrase "Source code" means:
- The original systems program from which compiled programs are generated.
  - A complete operating system kit with the utilities and applications you need to make it do useful things.
  - A standard distributed windowing system on which people implement graphical interfaces.
  - An organization of volunteers dedicated to making good software that anyone could use without paying.
17. Which of the following statements is true?
- Fewer people are using computers because computer functions are becoming integrated into other electronic devices.
  - Keyboards and mice will soon not be required for using personal computers.
  - Intelligent agents will make computers seem more like humans.
  - Speech recognition is likely to completely replace other input devices.
18. The term "Intelligent agent" means:
- 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.
  - Software assistant that performs tasks such as retrieving and delivering information and automating repetitive tasks.
  - Graphical user interface.
  - A project of the Massachusetts Institute of Technology's Artificial Intelligence Lab.
19. However, there are some potential pitfalls. To use applications remotely requires a lot of bandwidth, which is only really available from a broadband connection or a leased line to the ..... itself.
- MP3
  - WAV
  - SAP
  - ASP
20. The phrase " Broadband " means:
- Set of standard programs used in an office
  - Facility for storing large amounts of information
  - Capacity of a network connection
  - High capacity Internet connection

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21. A hub is an electronic device ..... all the data cabling in a network.  
a. which connects      b. is connecting      c. connected      d. to connect
22. Received messages are stored locally and retrieved from the local file system by the mail program. In the case of Web mail, the message is then translated into ..... and transmitted to your browser.  
a. IP      b. UDP      c. TCP      d. HTML
23. In which set of two words, the second word is the antonym of the first one?  
a. requisite -- required      b. endure -- to last  
c. precarious -- hazardous      d. forfeit -- preserve
24. Which of the following terms is defined by the statement " Person pretending to be someone else "  
a- Impostor      b- Tenets      c- Tamper      d- Decipher
25. The blank of which following statements is complete with the phrasal verb " break into " ?  
a. Hackers may ..... pretending to be from your company and ask for your password.  
b. When you ..... to a network, you have to provide an ID.  
c. How do you ..... hacking into a system?  
d. Some hackers..... systems to get commercially valuable information.
26. The phrase " Encapsulation" means:  
a. An OOP property that allows data and program instructions to be bundled into an object.  
b. An OOP property that enables different objects to deal with the same instruction in different ways.  
c. A module containing data and program instructions.  
d. Object-Oriented Programming.
27. Choose correct answer to complete the blank of following statement.  
Encapsulation, ..... and polymorphism are key features of ..... programming.  
Encapsulation allows data and program instructions to be bundled together in ..... called objects. Inheritance means that specific of a class of objects ..... the properties of the class of objects.  
a. development, OOP, modules, define      b. inheritance, DDB, modules, introduce  
c. inheritance, OOP, modules, define      d. polymorphism, RDBMS, modules, classify



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سئوالات تشریحی

## 1. Match the items in Table A with the statements in Table B. (0.75 mark)

## Table A

## Table B

- |                      |   |
|----------------------|---|
| a. BT                | i. A computer program that watches, learns and communicates with the user     |
| b. smart phone       | ii. Most powerful type of computer  |
| c. Intelligent agent | iii. Research and development   |
| d. Rocket science    | iv. Transfer data from a client device to a server computer                   |
| e. R&D               | v. A telephone that can translate English into various languages in real-time |
| f. Upload            | vi. British Telecom   |
| g. Supercomputer     | vii. Very advanced study  |

## 2. Complete the following text using given words: (0.75 mark)

Large amounts of data stored in data .....are often used for data .....The data is first .....to remove .....information and errors. The .....is then analyzed using a tool such as.....An analysis report is then analyzed by an.....who decides if the .....need to be refined, other data .....tools need to be used, or if the results need to be discarded because they are ..... The analyst passes the final results to the ..... makers who decide on the ..... action.

decision

appropriate

analysis

unusable

software

data

mined

analyst

erroneous

storage

base

report

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3- Complete the gap in each sentence with the appropriate phrasal verb in the correct form. (0.75 mark)

1. Hackers try to ..... (track) passwords so they can penetrate a system.
2. Don't ..... (set) your password to anyone who asks for it.
3. The police ..... (track) Ralph .....by talking to his friends and acquaintances.
4. Some hackers..... (log) systems to get commercially valuable information.
5. When you ..... (phone) to a network, you have to provide an ID.
6. How do you ..... (find) hacking into a system?
7. Hackers may ..... (break) pretending to be from your company and ask for your password.
8. Never ..... (throw) your credit card receipts where someone can find them.
9. Ralph was a hacker as a teenager but he's ..... (hand) now and become more responsible.
10. It's a constant race to ..... (keep) of the hackers.

**4- Translate the following paragraph into Farsi. (0.75mark)**

Providing applications and storage space for vast numbers of users requires some powerful technology on the part of the ASP, This includes security controls and data storage as well as providing the physical links to customers. For the most part, ASPs don't own the data centers that store the information. Instead, they lease space from data storage specialists. In this way, they can be confident of meeting customers' increasing storage requirements by buying more space as it's needed.