

تعداد سوالات: تستی: ۲۵ تشریحی: ۴

زمان آزمون (دقیقه): تستی: ۵۰ تشریحی: ۳۰

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رشته تحصیلی / کد درس: نرم افزار ۱۱۱۵۰۷۴ - نرم افزار (

فناوری اطلاعات (تجميع) - علوم کامپیوتر (تجميع)

استفاده از:

کد سری سؤال: یک (۱)

امام خمینی (ره): این محرم و صفر است که اسلام را زنده نگه داشته است.

1. 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.

- a. numbers b. characters c. signals d. data

2. which of the following statements is false?

- a. All computers accept and process information in the form of instructions and characters.
b. The information necessary for solving problems is found in the memory of the computer.
c. There are many different devices used for feeding, information into a computer.
d. Computers can make any type of decision they are asked to.

3. 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.

- a. records b. characters c. facts d. instructions

Computers can remove many of the and boring tasks from our lives, thereby leaving us with more time for interesting, creative work.

- a. function b. procedure c. routine d. Duties

What is the meaning of *adjective-formatting suffix* -"less"?

- a. without b. like c. quality of d. having

6. Computer is a fast growing discipline.

- a. technology b. technologist c. technological d. technologically

7. The main storage locations of a computer are called itsary storage.

- a. multi- b. mini- c. bin - d. prim-

8. Which of the following statements is true?

- a. Desktop organizers are programs that require desktop computers.
b. Not only is computing equipment getting smaller, it is getting more sophisticated.
c. The use of computers prevents people from being creative.
d. Computer users do not have much influence over the way that computing develops.

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9. The term "Multimedia" 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. Internet system designed to provide free, interactive access to vast resources for people all over the world.

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

10. Distance learning and videoconferencing are concepts made possible with the use of an electronic classroom or boardroom accessible to people in

- a. universities
- b. houses
- c. schools
- d. remote locations

11. Software that enables computers to 'think' like experts is called:

- a. Data mining
- b. Edutainment
- c. Expert system
- d. Data warehouse

12. Data mining is simply filtering through large amounts of raw data for useful information that gives businesses a competitive edge.

- a. Data mining
- b. AI
- c. Expert system
- d. RUP

13. An operating system..... on its own isn't a lot of use; but Linux was purposefully designed as a near-clone of Unix and there is a lot of software out there that is free and was designed to compile on linux.

- a. user
- b. expert
- c. manager
- d. Kernel

14. Which of the following statements is a main function of the operating systems:

- 1. Management of the computer's resources, such as the central processing unit, memory, disk drives and printers
 - 2. Establishment of a user interface.
 - 3. Executing of services for applications software.
 - 4. Compiling application programs.
- a. 1, 2 and 3
 - b. 2, 3 and 4
 - c. 1, 2 and 4
 - d. 1 and 2

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15. The term " Intelligent agent " means:

- A type of software development where any programmer can develop or fix bugs in the software.
- The original systems program from which compiled programs are generated.
- A project of the Massachusetts Institute of Technology's Artificial Intelligence Lab.
- Software assistant that performs tasks such as retrieving and delivering information and automating repetitive tasks.

16. Which terms is described by the following statement?

"Facility for storing large amounts of information."

- Office suite
- Data centre
- Intelligent agent
- GUI

17. Which of the following statements is true?

- Software from an ASP must be installed locally on a user's computer.
- ASP usually uses their own storage space for customers.
- You need a high bandwidth connection to use an ASP service.
- Using an ASP gives you more flexibility.

- 1, 2 and 3
- 2, 3 and 4
- 2 and 4
- 1 and 2

18. A backbone is a network transmission path..... (handle) major data traffic.

- to handle
- is handled
- handling
- which handled

19. A hub is an electronic device all the data cabling in a network.

- which uses
- which stores
- which connects
- which directs

20. Which of the following terms is defined by the statement "Standard used for software that routes data through a gateway."

- Internet address
- Transmission Control Protocol
- Resolution protocol
- Gateway

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21. The blank of which following statements is complete with the phrasal verb " break into " ?
- Some hackers..... systems to get commercially valuable information.
 - When you to a network, you have to provide an ID.
 - How do you hacking into a system?
 - Hackers may pretending to be from your company and ask for your password.
22. 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.
- development, OOP, modules, define
 - inheritance, DDB, modules, introduce
 - inheritance, OOP, modules, define
 - modu latien, RDBMS, modules, classify
23. In which set of two words, the second word is the synonym of the first one?
- plenty -- inadequate
 - sheltered-- protected
 - account -- wobble
 - specific -- vague
24. Any large organization will have at least one it managerfor ensuring that everyone who actually a pc has one and that it works properly.
- working – needs
 - works – plays
 - responsible- programs
 - responsible - needs
25. Many industry observers feel that the encapsulation features of is the natural tool for complex applications in which speech and moving images are integrated with text and graphics.
- OUP
 - OOP
 - MCP
 - MCSE

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سئوالات تشریحی

بارم تشریحی: ۶ نمره

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

Table A

- a. OOP
- b. Encapsulation
- c. Object
- d. Menu
- e. Square
- f. Polymorphism
- g. Library

Table B

- i. An OOP property that allows data and program instructions to be bundled into an object.
- ii. A list of choices
- iii. An OOP property that enables different objects to deal with the same instruction in different ways.
- iv. A reusable collection of objects
- v. A module containing data and program instructions.
- vi. Object - Oriented Programming.
- vii. A rectangle with equal sides.

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2. Fill in the blanks with the correct prefix from the following list. (1.5 mark)

multi-	deci-	sub-	inter-
semi-	mono-	mega-	auto
inter-	de-	pre-	prim-

- a.byte means one million bytes.
- b.plexing is when many electrical signals are combined and carried on only one optical link.
- c. the fantastic capacity for storage in the brain is the result of an almost unlimited combination ofconnections between brain cells.
- d. The number system we use in everyday life is themal system which has a base of 10.
- e. CRT terminals are very usefulactive devices for use in airline reservations.
- f. Some screens arechromatic whereas others produce multicolor pictorial graphics.
- g. if decision makers are uncertain as to the potential effectiveness or the results of a decision, they conform to the- established standard.
- h. The main storage locations of a computer are called itsary storage.
- i. The small ferrite rings called cores have two states: they can be either magnetized ormagnetized.
- j. The introduction of chips orconductor memories made it possible to reduce the size of the computer.

3. Complete the gaps in this text on operating systems using these linking words and phrases:

(1.5 mark)

although	in addition
because	such as
but	therefore

The user is aware of the effects of different applications programs operating systems are invisible to most users. They lie between applications programs, word-processing and the

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hardware.

The supervisor program is the most important. It remains in memory, it is referred to as resident. Others are called non-resident.....they are loaded into memory only when needed. Operating systems manage the computer's resources,..... the central processing unit,..... they establish a user interface and execute and provide services for applications software, input and output operations are invoked by applications programs, they are carried out by the operating system.

4 Translate the following paragraph into Farsi. (2 mark)

The combination of encapsulation, inheritance and polymorphism leads to code reusability. 'Reusable code' means that new programs can easily be copied and pasted together from old programs. All one has to do is access a library of objects and stitch them into a working whole. This eliminates the need to write code from scratch and then debug it. Code reusability makes both program development and program maintenance faster.