

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

- 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
- 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.
- 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
- Computer ..... is a fast growing discipline.  
● a. technology                      b. technologist                      c. technological                      d. technologically
- The main storage locations of a computer are called its .....ary storage.  
a. multi-                      b. mini-                      c. bin -                      ● d. prim-
- 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.



تعداد سوالات: تستی: ۲۵ تشریحی: ۴

نام درس: زبان تخصصی

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

رشته تحصیلی / کد درس: نرم افزار ۱۱۱۵۰۷۴ - نرم افزار (تجميع) - سخت افزار - فناوری اطلاعات -

فناوری اطلاعات (تجميع) - علوم کامپیوتر (تجميع) ۱۲۲۵۰۰۸

مجاز است.

استفاده از: --

کد سری سؤال: یک (۱)

15. The term " Intelligent agent " means:

- a. A type of software development where any programmer can develop or fix bugs in the software.
- b. The original systems program from which compiled programs are generated.
- c. A project of the Massachusetts Institute of Technology's Artificial Intelligence Lab.
- d. 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."

- a. Office suite
- b. Data centre
- c. Intelligent agent
- d. GUI

17. Which of the following statements is true?

- 1. Software from an ASP must be installed locally on auser's computer.
  - 2. ASP usually uses their own storage space for customers.
  - 3. You need a high bandwidth connection to use an ASP service.
  - 4. Using an ASP gives you more flexibility.
- a. 1, 2 and 3
  - b. 2, 3 and 4
  - c. 2 and 4
  - d. 1 and 2

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

- a. to handle
- b. is handled
- c. handling
- d. which handled

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

- a. which uses
- b. which stores
- c. which connects
- d. which directs

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

- a. Internet address
- b. Transmission Control Protocol
- c. Resolution protocol
- d. Gateway



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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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مجاز است.

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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 of .....connections between brain cells.

d. The number system we use in everyday life is the .....mal system which has a base of 10.

e. CRT terminals are very useful .....active devices for use in airline reservations.

f. Some screens are .....chromatic 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 its .....ary storage.

i. The small ferrite rings called cores have two states: they can be either magnetized or .....magnetized.

j. The introduction of chips or .....conductor 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

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.



مرکز آزمون  
کلید سؤالات تشریحی (محرمانه)



نام درس: .....  
 کد درس: .....  
 رشته تحصیلی - گرایش: .....  
 مقطع: .....  
 سال تحصیلی: .....  
 نیمسال: اول  دوم  ترم تابستان  تاریخ آزمون: ۱۴۰۱/۲/۱۰  
 بارم: ۴ نمره

1. Page 113 (mark)

a → vi b → i c → v d → ii e → vii f → iii g → iv

2. Page 34 (115)

a: mega b: multi c: inter d: deci e: ~~mono~~ inter  
 f: mono g: pre h: prim i: de j: semi

3. Page 137 (115)

but - such as therefore - because - such as  
 in addition - although

4. (8 marks)  
 ترکیب سبب نیز، درایت و هنجار تشریحی استفاده مجدد از که استن است از.  
 "که با قابلیت استفاده مجدد" به این معنات که برنامه‌ها را به یکدیگر پیوند می‌دهد (تشریح) کاری که  
 با یکی کردن و به هم پیوندن برنامه‌ها می‌آید نمود. همه (تشریح) کاری که  
 شخص لازمست انجام دهد، دسترسی به متن است تا بتواند از آن استفاده کند و ترکیب  
 این است برای ایجاد یک برنامه قابل استفاده می‌باشد. به این ترتیب می‌توانیم  
 نوشتن که از ابتدا و پس از آن برآورد. استفاده دوباره از که  
 هم توسعه و هم نگهداری برنامه‌ها را سرعت می‌بخشد.

زبان تخصصی ترم اول ۹۰\_۸۹

|     |    |
|-----|----|
| ج   | 1  |
| د   | 2  |
| د   | 3  |
| ج   | 4  |
| الف | 5  |
| الف | 6  |
| د   | 7  |
| ب.ب | 8  |
| د   | 9  |
| د   | 10 |
| ج   | 11 |
| الف | 12 |
| د   | 13 |
| الف | 14 |
| د   | 15 |
| ب.ب | 16 |
| ب.ب | 17 |
| ج   | 18 |
| ج   | 19 |
| ج   | 20 |
| الف | 21 |
| ج   | 22 |
| ب.ب | 23 |
| د   | 24 |
| الف | 25 |