نام درس: زبان تخصصی
تعداد سؤالات: تستی: ۲۵ تشریحی: ۴

رشته تحصیلی/ کُد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع - سخت افزار– فناوری اطلاعات
زمان آزمون (دقیقه): تستی: ۶۰ تشریحی: ۶۰

فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

کُد سری سؤال: یک (۱)   **استفاده از: --**   **مجاز است.**

تنها با یاد اوست که دلها آرام می‌گیرد.

1. A computer can solve a series of problems and make hundreds, even thousands, of …………….. without becoming tired or bored.
   a . logical decisions   b. jobs   c. process   d. operations

2. …………….. minicomputers, microcomputers are not very flexible .
   a. Contrasting   b. Distinct   c. Unlike   d. Dissimilar to

3. A computer is a device which …………….. processes and gives out information.
   a. acceptance   b. acceptable   c. accepted   d. accepts

4. In which set of two words, the second word is the <u>antonym</u> of the first one?
   a. vital – indispensable   b. vital -- immaterial
   c. frail -- fragile   d. appealing-- alluring

5. The success or failure of any computer depends on the skill with which the hardware and software components are selected and ....
   a. unified   b. merged   c. balanced   d. blended

6. Which of the following statements is <u>false</u>?
   a. Computers are sometimes used to monitor systems that previously needed human supervision.
   b. Networking is a way of allowing otherwise incompatible systems to communicate and share resources.
   c. Computer users do not have much influence over the way that computing develops.
   d. Expert systems software enables computers to 'think' like experts.

7. The term " Information superhighway" means:

   a. Use computers to stay in touch with the office while working at home.
   b. Internet system designed to provide free, interactive access to vast resources for people all over the world.
   c. Multimedia materials with a combination of educational and entertainment content
   d. Storage method of archiving large amounts of data to make it easy to access.

8. ....   is simply filtering through large amounts of raw data for useful information that gives businesses a competitive edge. This information is made up of meaningful patterns and trends that are already in the data but were previously unseen.
   a. AI   b. Data mining   c. Cleansed data   d. Data warehouse

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نام درس: زبان تخصصی

تعداد سؤالات: تستی: ۲۵   تشریحی: ۴

استان:

کارشناسی (ستتی - تجمیع)

رشته تحصیلی/ کد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع - سخت افزار- فناوری اطلاعات

زمان آزمون (دقیقه): تستی: ۶۰   تشریحی: ۶۰

فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

کد سری سؤال: یک (۱)   استفاده از: --   مجاز است.

9. It is ………….. to follow the directions for the experiment exactly as the instructor indicates.

   a. criticism   b. criticize   c. crucial   d. critical

10. Which of the following statements is <u>true</u>?

   a. Linux is based on Unix.

   b. Minix was created by a university student.

   c. Linux runs on more types of computer than any other operating system.

   d. Minix is based on Linux.

11. The term " Kernel" means:

   a. A type of software development where any programmer can develop or fix bugs in the software

   b. A complete operating system kit with the utilities and applications you need to make it do useful things

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

   d. A standard distributed windowing system on which people implement graphical interfaces

12. Which statement indicates a correct matching of the terms in Table A with the statements in Table B?

   Table A

1. GUI

2. Multimodal interface

3. Intelligent agent

4. ITS

5. The Intelligent Room

   Table B

i. Software assistant that performs tasks such as retrieving and delivering information and automating repetitive tasks

ii. Text to speech

iii. Graphical user interface

iv. A project of the Massachusetts Institute of Technology's Artificial Intelligence Lab

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نام درس: زبان تخصصی

تعداد سؤالات: تستی: ۲۵ تشریحی: ۴

رشته تحصیلی/ کد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع – سخت افزار– فناوری اطلاعات

زمان آزمون (دقیقه): تستی: ۶۰ تشریحی: ۶۰

فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

کد سری سؤال: یک (۱)   استفاده از: --   مجاز است.

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v. 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.

  a. {(1 = i) , (2 = v), (3 = iii), (4 = iv), (5 = ii)}

  b. {(1 = iv) , (2 = v), (3 = i), (4 = ii), (5 = iii)}

  c. {(1 = iii) , (2 = v), (3 = i), (4 = ii), (5 = iv)}

  d. {(1 = ii) , (2 = i), (3 = v), (4 = iii), (5 = iv)}

13. In which set of two words, the second word is the <u>synonym</u> of the first one?

 i. dim – faint

 ii. accurate – precise

 iii. vibrant – listless

 iv. dominant – major

  a. i, ii, iii

  b. i, iii

  c. ii, iii

  d. i, ii, iv

14. The phrase " data centre " means:

  a. Set of standard programs used in an office

  b. Facility for storing large amounts of information

  c. Capacity of a network connection

  d. High capacity Internet connection

15. A router is a special computer .... (direct) messages when several networks are linked.

  a. which directs   b. which is directed

  c. which are directed   d. which is directed

16. Which of the following statements is <u>false</u>?

  a. UDP software provides the final routing for data within the receiving system.

  b. Internet addresses are an integral part of the IP protocol.

  C. UDP recovers packets that aren't successfully delivered.

  d. TCP only works w hen it is combined with IP.

نام درس: زبان تخصصی

رشته تحصیلی/ کُد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع – سخت افزار– فناوری اطلاعات

فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

کُد سری سؤال: یک (۱)   استفاده از: --   مجاز است.

تعداد سؤالات: تستی: ۲۵   تشریحی: ۴

زمان آزمون (دقیقه): تستی: ۶۰   تشریحی: ۶۰

کارشناسی (سنتی – تجمیع)   استان:

17. The term "POP" means.

a. An email transfer process in which the connection is initiated by the sending computer rather than the receiving computer.

b. A mail transfer protocol that initially only retrieves the message headers.

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

d. A message protocol that downloads all email messages at the same time.

18. .... is an application-specific derivation of SGML. It is a set of codes, generally used for web pages, that creates electronic documents according to rules established by SGML

a. XML

b. ADSL

c. ISDN

d. HTML

19. Which of the following statements is <u>false</u>

a. HTML is no longer useful for creating web pages.

b. SGML is more complex than XML

c. XML files can only be read by browser programs.

d. HTML is a markup language.

20. .... technology capitalizes on the existing network of copper infrastructure, but allows digital signals to be carried rather than analogue. It allows the full bandwidth of the copper twisted-pair telephone cabling to be utilized.

a. ADSL

b. DSL

c. ISDN

c. TA

21. Which terms is defined by the following statement?
"Digital channel used to carry ISDN signaling and supervisory information to the network."

a. ISDN   b. Data channel   c. Bearer channel   d. Splitter-based services

استان:
کارشناسی (سنتی - تجمیع)

نام درس: زبان تخصصی

تعداد سؤالات: تستی: ۲۵ تشریحی: ۴

رشته تحصیلی/ کُد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع - سخت افزار– فناوری اطلاعات

زمان آزمون (دقیقه): تستی: ۶۰ تشریحی: ۶۰

فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

کُد سری سؤال: یک (۱)   استفاده از: --   مجاز است.

22. Which set of phrasal verbs complete blanks of the following statement?

 i. Hackers try to .... passwords so they can penetrate a system.

 ii. Don't .... your password to anyone who asks for it.

 iii. Some hackers..........systems to get commercially valuable information.

 iv. When you ....to a network, you have to provide an ID.

a. Keep at, hand over, go out, hand over

b. break into, get into, find out, hand over

c. set about, keep ahead, log out, throw away

d. track down, set about, log out, phone up

23. In which set of two words, the second word is the <u>synonym</u> of the first one
i. hue – color
ii. intricate – complex

iii.magnitude – dimension

iv. plentiful – scarce

 a. i, ii, iii

 b. i, iii

 c. ii, iii

 d. i, ii, iv

24.Which of the following statements is <u>false</u>?
a. All Microsoft training courses involve a period of full-time study.

b. Practice exams allow you to become familiar with the structure of the exams.

c. You can decide on the suitability of a course by its title.

d. It is your responsibility to make sure that your certification is kept up to date.

25. It's not just jewelry that's set to get smarter. One of the biggest projects down at the lab is looking at artificial intelligence as a way of creating software programs, networks, telephones and machines with a degree of .... built in.
a. aptitude   b. astuteness   c. intelligence   d. brainpower

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استان:

کارشناسی (ستتی - تجمیع)

نام درس: زبان تخصصی

رشته تحصیلی/ کد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع - سخت افزار– فناوری اطلاعات فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

تعداد سؤالات: تستی: ۲۵   تشریحی: ۴

زمان آزمون (دقیقه): تستی: ۶۰   تشریحی: ۶۰

کد سری سؤال: یک (۱)   استفاده از: --   مجاز است.

سئوالات تشریحي

1. Match the items in Table <u>A</u> with the statements in Table <u>B</u>. (1/4 mark)

Table A	Table B
a. OOP	i. An OOP property that allows data and program instructions to be bundled into an object
b. Encapsulation	ii. A list of choices
c. Object	iii. An OOP property that enables different objects to deal with the same instruction in different ways
d. Menu	iv. A reusable collection of objects
e. Square	v. A module containing data and program instructions
f. Polymorphism	vi. Object-Oriented Programming
g. Library	vii. A rectangle with equal sides

2. Complete the following text using these linking words and phrases: (1/2 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.

کارشناسی (سنتی - تجمیع)

تعداد سؤالات: تستی: ۲۵ تشریحی: ۴

نام درس: زبان تخصصی

رشته تحصیلی/ کُد درس: نرم افزار ۱۱۱۵۰۷۴ – نرم افزار تجمیع - سخت افزار– فناوری اطلاعات

زمان آزمون (دقیقه): تستی: ۶۰ تشریحی: ۶۰

فناوری (تجمیع) علوم کامپیوتر (تجمیع) (۱۲۲۵۰۰۸)

کُد سری سؤال: یک (۱)   استفاده از: --   مجاز است.

3. Complete the gap in each sentence with the correct participle of the verb given in brackets. (2 mark)

A gateway is an interface .... (enable) dissimilar networks to communicate.

i. A bridge is a hardware and software combination.......... (use) to connect the same type of networks.

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

iii. A router is a special computer ....(direct) messages when several networks are linked.

iv. A network is a number of computers and peripherals.......... (link) together.

A LAN is a network .... (connect) computers over a small distance such as within a company.

v. A server is a powerful computer ....store) many programs .... (share) by all the clients in the network.

vi. A client is a network computer .... (use) for accessing a service on a server.

vii. A thin client is a simple computer .... (comprise) a processor and memory, display, keyboard, mouse and hard drives only.

viii. A hub is an electronic device .... (connect) all the data cabling in a network.

4. Translate the following paragraph into Farsi. (1/4 mark)

Neural networks look at the rules of using data, which are based on the connections found or on a sample set of data. As a result, the software continually analyses value and compares it to the other factors and it compares these factors repeatedly until it finds patterns emerging. These patterns are known as rules.

مرکز آزمون
کلید سئوالات تشریحی (محرمانه)

نام درس: طراحی مبانی و روشهای عملی برنامه سازی		صفحه: .... از: ....
کد درس: ۱۱۱۸۱۶۸ ـ ۸۴ مه ۵ ۱۱۱		
رشته تحصیلی ـ گرایش: مهندسی کی افزار علوم کامپیوتر ریاضی تحقی)		
مقطع: کارشناسی	سال تحصیلی: ۹۰-۸۹ نیمسال: اول ⃝ دوم ⃝ ترم تابستان ⃝ تاریخ آزمون: ۷/۴ بارم: ۶ نمره	

پاسخ ۱: حوزه ارجاعی ایستا: ۴و۲ و ۱۴ و ۱۲حوزه ارجاعی پویا: ۱۴و۱۲و۱۴و۱۲

پاسخ۲ : Value (R$_i$=k+sigma(j=1 to i-1)(size of Rj)=k+(size int+10*size (float))*12+addrecord of

(array[12].numfld[3])=k+(4+10*6)*12+(4*6*2)=k+(64*12)+(48)=k+816 byte1)_

پاسخ : ۳

(۴۵)

Base	Read (k,i)
	If k>=0 false jumpL$_7$
L$_1$	If i<=10 false jumpL$_2$
	I=i+1
	Write(i)
	End while jumpL$_1$
L$_2$	Read(n)
	بدست آوردن مقدار t از روی tag
	Jump L$_3$+t
L$_3$	Jump L$_4$
	Jump L$_5$
L$_4$	Write 'Alpha'
	Jump L$_6$
L$_5$	Write 'Beta'
L$_6$	End case
L$_7$	End if

پاسخ۴ : محیط های ارجاع محلی P$_1$: P$_2$,x,Qمحیط های ارجاع غیرمحلی P$_1$: z,y -------- درP$_1$

محیط ارجاع محلی P$_2$: z , Qمحیط ارجاع غیرمحلی P$_2$: x , درP$_2$ ----- درP$_1$ y, P$_1$درmain

ارجاع محلی main :_ (1.5   x , y , z , P$_1$

پاسخ۵ :: فصل ۲ صفحه ۵۴ و ۵۵ کتاب درسی

(۱)

زبان تخصصی	ترم دوم ۹۰-۸۹	
1	الف	
2	ج	
3	د	
4	ب	
5	د	
6	ج	
7	ب	
8	ب	
9	د	
10	الف	
11	ج	
12	ج	
13	د	
14	ب	
15	الف	
16	ج	
17	ج	
18	د	
19	الف	
20	ب	
21	ب	
22	د	
23	الف	
24	الف	
25	ج	

به نام تنها سزاوار ستایش

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تهیه و تنظیم : سرکار خانم مظلومی