خلاصه کتاب زبان تخصصی رشته کامپیوتر

نسخه ۱
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شامل نکات و کلمات و جملات مهم

معنی اصطلاحات اصلی کتاب درسی

سوالات مهم امتحان نهایی

شامل حدود ۱۰۰۰ کلمه مهم کتاب درسی

شامل همنشینی ها مهم در زبان تخصصی کامپیوتر

خلاصه برداری ویژه امتحانات نهایی

Collocation

همنشینی لغات (باهم گذاری، ترتیب، نظم، نوبت وترتیب)

Warm-up

دست گرمی

Computers have many applications in a wide variety of fields

in modern life and Different situations

Perform

انجام دادن ، کردن ، اجرا کردن ، بازی کردن ، نمایش دادن

CAD (computer-aided design)

طراحی به کمک کامپیوتر

solve difficult problems rapidly

تند با سرعت

Purposes

Race organizers

سازمانهای ورزشی

rely on computers

اعتماد کردن ، تکیه کردن (با on و upon)

(شهریور ۸۸)

Provide

تهیه کردن ،آماده کردن ،وسیله فراهم کردن ،
میسر ساختن ،تامین کردن ،تدارک دیدن، عرضه کردن

Rider   سوار کار

Real-time information

(خرداد ۸۸)(دی ۸۹)(دی ۸۷)

اطلاعات آنی (بی درنگ)

Drug-detecting tests

نست دوپینگ

Staff کارمندان

Carry out financial transactions at high speed

Carry out=do

(دی ۸۸)(خرداد۸۵)

ATMs (automatic teller machines)

تحویلدار

Fuel consumption and weather conditions

Travel agents   -   Availability of flights

Self-acting= automatic

(خرداد۸۸)

Keep=save=store

(دی ۸۹)

(Very efficiently) - For almost every aspect of my job

تقریبا، بطور نزدیک

to keep records

Jobs=>(secretary, Librarian)

Exactly like

Boring=dull

ملال آوری،کسل کننده

No creativity

Routine tasks

روال، امر عادی.روزمره ، کار عادی

Involve

گرفتار کردن ، گیر انداختن ، گرفتارشدن ، در گیر کردن یا شدن

Sophisticated (خرداد ۸۹)

خبره و ماهر ، مشکل و پیچیده ، مصنوعی ، غیر طبیعی

Endlessly

دائما"،بی نهایت،بی وقفه

Probably محتملا، شاید

Appropriate   مناسب

Unit 2: What is a Computer? (Components)

Accept data in a certain form

مسلم ،محقق ،یقین ،معین ،قطعی

a set of instructions

Peripheral

دستگاه جانبی

a permanent storage

(خرداد ۸۹)

پایدار، ابدی، ثابت، ماندنی، سیر دائمی.دائمی، ماندنی

On the rear panel of the computer

Configuration

(دی ۸۷)

Permit=allow

(دی ۸۹)

For example= e.g. = for instance

Particular

ویژه ، خاص،مخصوص ،دقیق خصوصیات، تک ، منحصر بفرد

Computers can be divided into four main types Depending on their size and power.

Multitasking=Doing a number of tasks at the same time.

(خرداد ۹۰) (شهریور ۸۸ ۸۹)(دی ۸۷ ۸۸ ۸۹)

Secondary storage devices (disks)

Internal expansion slots

Interval

فاصله ، مدت، فرجه ، ایست، وقفه ، خلال

Bits – basic units of memory

Eight bits together are called a byte

Representation

نمایش، نمایندگی.نمایش، نمایندگی، تمثال، نماینده ، ارائه

Ideal

کمال مطلوب، هدف زندگی، آرمان ، آرزو، ایده آل، دلخواه .

Represents 1,024 characters=KB

(About a small page of text)=KB

Broadly speaking,...

MB=1,024KB

(دی ۸۹)

One megabyte is equivalent to 1,024 KB

One gigabyte is 1,024 MB

Task=Job

(خرداد ۸۵)

Notation

نشان گذاری.نماد سازی، یاد داشت،

ثبت، توجه ، بخاطر سپاری، حاشیه نویسی.

3.5″ floppy drive=

Read and write to removable magnetic disks

CPU=

Execute all the operations in a computer.

A megahertz (MHz) is equivalent to 1,000,000 cycles per second.

The clock speed of the microprocessor is measured in gigahertz (GHz) or megahertz (MHz)

Information cannot be processed by the microprocessor if it is not loaded onto the main memory.

Direct

(vi and .vt.): دستور دادن (به)، اداره کردن ، هدایت کردن ، نظارت کردن (بر)، (n and .adj.): متوجه ساختن ، مستقیم

The CPU directs and coordinates the activities taking place in the computer system.

Unit 3: electromechanical parts of a computer (Hardware)

The structure of the CPU

ساخت، ساختمان ، ترکیب، سبک ، تشکیلات دادن ، ساختار

To distinguish between .... And ....

Consists of two parts ....

is made up of three .... parts

Influential

دارای نفوذ و قدرت.

Component

اجزائ، ترکیب کننده ، ترکیب دهنده ، جزئ.مولفه

In a way

از یک جهت ،تا اندازه ای

the storage capacity of a high-density diskette : 1.44 MB

Formatting= setting tracks and sectors on magnetic disks

(خرداد ۸۹ ۸۸) (دی ۸۸ ۸۹)(شهریور ۸۸)

The surface of a disk is divided into concentric circles or "tracks," which are then divided into "sectors."

رویه ، سطح، ظاهر، بیرون

Concentric

هم مرکز، متحد المرکز.

However, they have important advantages:

A floppy disk drive spins at 360 rpm (revolutions per minute).

چرخش.دور، دوران کامل،

In shape, this input device is similar to an ordinary pen.

معمولی، عادی، متداول، پیش پا افتاده

The mouse is widely used in graphics and design.

Similarly

بهمین نحو - بطور مشابه

The mouse is used to change the shape of a graphic object.

Convert a square into a rectangle=grab (hold)

Customer: I think I need to go away and think about it for a bit.

LCD monitors have a better picture quality than CRT monitors. PDAs are smaller and lighter than laptops.

Floppy disks are so called because

(شهریور۸۹)(خرداد ۸۸ ۸۷) (دی ۸۷)

They consist of flexible plastic material

خم شو، تاشو، نرم، قابل انعطاف، قابل تغییر.

Unit 4: Operating Systems (OS)

It is said that operating systems are hidden software.

It is said that ....

Come out

ظاهرشدن ، پدیدار شدن

The factory assembly line

Partly

چندی، یک چند، تاحدی، نسبتا، دریک جزئ، تایک اندازه .

Directly

An operating system is a software interface between the hardware and applications software.

According to the text, the hardware can't work without software.

Much of the work of an operating system is hidden from the user.

برنامه ناظر

The supervisor program is the most important. It remains in memory; therefore, it is referred to as resident.

مقیم، مستقر

Therefore

برای آن (منظور)، از اینرو، بنابر این ، بدلیل آن ، سپس

Prior

اولی ،قبلی ،از پیش ،پیشین ،جلوی ،مقدم ،اسبق

Pocket PC OS : This OS is developed for handheld computers (or palmtops) that use a stylus or a small keyboard for input.

[Prefixes, roots, and suffixes]

(One way to guess the meaning of a new word)

1- to make a noun:-ion

Animation, application, communication, expansion, installation, transformation

2- to make a verb:-ize

Computerize, digitize, memorize, minimize, maximize, customize, and synchronize

3- to make an adjective: -able

Removable, rewritable, wearable, clickable, editable, programmable, magnetizable , rechargeable, searchable, downloadable

4- to show the doer of an action: -er/-or

user, compiler, transceiver, debugger, converter, defragmenter, screen saver

تابع، کارکرد، وظیفه ، کار، کار ویژه (مهمترین عملیات)

One of the most important functions of a computer is to process large amounts of data quickly.

ایمن ،بی خطر،مطمئن ،استوار،محکم

It's more secure and reliable

(خرداد ۸۹)

قابل اطمینان ، معتبر.قابل اطمینان ، موثق، معتبر، قابل اتکا.

Revolutionize

تغییرات اساسی دادن .

There is no doubt computers have revolutionized the way we live.

درخورد،مناسب ،شایسته ،فراخور،مقتضی

Portable PCs are suitable for people who travel.

در صورتیکه ، هنگامیکه ، حال آنکه ، مادامیکه ، در حین ، تاموقعی که

A scanner is an input device, while a printer is an output device.

دستگاه   Device

Applications software is a software interface between the hardware and the operating system.   (False)[F]

Voice-recognition technology

تشخیص

Linux can be controlled by one or more of a text-based command line interface (CLI). [T]

Some pen-based systems can also recognize hand-written characters and transfer them into editable text. [T]

(خرداد۸۷)

Sure. Laptops are simply smaller versions of desktop PCs, but they can run similar applications. However, palmtops are handheld computers and weigh less than a kilogram. They are used as PC companions or as personal digital assistants known as PDAs.

(شهریور ۸۷)

Palmtops: Writer: These handheld devices run on rechargeable alkaline batteries and have small keyboards and high-contrast LCD screens. Sometimes they have buttons for running applications, and a stylus or pen which is used for interacting with a touch-sensitive screen.

Update

بهنگام در آوردن .بصورت امروزی در آوردن ، جدید کردن

(دی ۸۹)

Handheld computers are sometimes called personal digital assistants (PDAs).

The binary system is a notation which uses two digits, 0 and 1.

دودوئی

Bi ----[two] ---- binary

Anti--- [against]---- antivirus, anti-clockwise

ضد جهت عقربه های ساعت

MP3 compression is used for music files.

بهم فشردگی، تراکم

Unit 5 : The Graphical User Interface [GUI]

User-friendly Interface

خرداد (۹۰)

Work on several documents

Containers

ظرف - محتوی

Dock : set of icons at the bottom of the screen that give you instant access to the things you use most

Quite complex

Memorize

خرداد(۹۰) خرداد(۸۹)

حفظ کردن و بخاطر سپردن

Execute = run a program.

خرداد (۹۰)

Computers are used by all kinds of people

Growing emphasis

تاکید - اهمیت

Moreover

علاوه بر این - بعلاوه

WIMP= Window, Icon, Menu (or Mouse), and Pointer

Various desk accessories

لوازم

Well-known

معروف و مشهور

New visual style

Internet Explorer is more reliable and secure

قابل اطمینان و امن

Firewall = protects your computer from Internet attacks.

خرداد (۹۰) شهریور(۸۷)

Microsoft Outlook Express lets you send electronic mail (Email)

My Briefcase helps you keep the files organized and up-to-date.

You can retrieve files if you delete them by mistake.

خرداد (۹۰)دی(۸۹)خرداد(۸۸)دی(۸۷)

بازیافتن

To delete the files permanently, you can empty the Recycle Bin.

بطور همیشگی و ثابت

Recently

به تازگی - اخیرا

All monitors except LCDs emit ELF

شهریور(۸۸)

بجزء – باستثنای

Extremely

بشدت

ELF= extremely low frequency radiation

"Ergonomics" is the study of fitting equipment to people so that it is easier to use and does not cause harm to users.

شهریور (۸۸)

They can't absorb all the ELF radiation, but they do reduce it.

Stay an arm's length away from the front of the monitor.

In the past, only experts used computers. Nowadays, however, many people have access to computers, so there is an emphasis on the user interface. (GUI)

Position the keyboard at the same height as your elbows.

Elbow

آرنج

You should position the monitor at eye level, or just below.

دی(۸۷)

Radiation

تشعشع – تابش – پرتوافشانی – اشعه

Unit 6 : Software(SW)

(Programs or instructions executed by the computer)

DTP (desktop publishing)

نشر رومیزی (صفحه آرایی)

DTP = this is a page layout program with many powerful typographical features.

Layout

طرح بندی – آرایش - آرایی

Educational software = this application helps students learn a language.

خرداد(۸۸)

Database program = this package allows you to store, manipulate, and retrieve data

Word Processors⇔ manipulate words

Manipulate

دستکاری کردن

WYSIWYG

(What You See Is What You Get, pronounced "wizzywig").

Your printout will exactly match what you see on the screen.

Format characteristics=

(margins, indents, super- and sub-scripted characters, etc.)

Proofreading= read through something that is written or printed to correct any mistakes in it

Retrieve = recover information from a computer system.

بازیافتن

With a [database] you can store, organize, and retrieve a large collection of related information on computer.

Another feature of database programs is that you can automatically look up and find records containing particular information.

A computer database is much faster to use and update than a card index system.

Any part of the program can be protected by user-defined Password.

خرداد(۸۵)

[System utilities] are small programs which improve a system's performance and help users to take advantage of the computer's capabilities.

امکانات کامپیوتر

Don't worry

[Ghost image] ⇔ [Screen Saver]

Ghost

شبح - روح

To automatically blank out the screen after a period of inactive time (so that the image does not burn into the screen)   [Screen Saver]

[[[Guessing Meaning from Context]]]

حدس زدن

The function of [antivirus] software is to scan, find, and destroy viruses.

Destroy

خراب کردن – نابود ساختن – ویران کردن – تباه کردن

Each piece of information is given in a separate field.

شهریور(۸۷)

Separate

جدا – جداگانه – جدا کردن

Manipulate

دی (۸۹)دی(۸۸)

[Data recovery] is a [utility] which will restore deleted files and recover [corrupted files] that refuse to open.

Corrupt

فاسد کردن – خراب کردن

Advantage

فایده – سود – مزیت – مفید بودن

Unit 7 : Multimedia technology

Refers to

اشاره داشتن – دلالت داشتن

In all sorts of fields

This is an obvious question, but what exactly is [multimedia]?

آشکار، هویدا، معلوم، واضح، بدیهی، مرئی، مشهود.

Integration

انتگرال گیری، مجتمع سازی.ائتلاف، انضمام

یکپارچگی، اتحاد عناصر مختلف اجتماع.

Traditional

سنتی

Traditional computing

[ACTIVE # PASSIVE]

Whereas

از آنجائیکه ، بادر نظر گرفتن اینکه

نظر به اینکه ، چون ، در حالیکه ، درحقیقت.

I think you also need some sort of sound capabilities

Yes, of course

No, not yet.

نه تاکنون

Multimedia Magic

جادوی چند رسانه ای

[Multimedia applications] are used in all sorts of fields

It is clear that...........

...... واضح است که

Memorable

حائز اهمیت، جالب، یاد آوردنی

as well as

بخوبی، بعلاوه ، ونیز، همچنین

a built-in stereo synthesizer

ترکیب کننده

Interactive

فعل و انفعالی

There are language courses available on CD-ROM[True]

the language used to create the majority of text files on the Web [HTML]

The most common extensions for text files are .txt, .pdf, .doc, and .htm (or .html).

..... Created by .....

آفریده - مخلوق

[mp3]=Compressed music files that can be played with an MP3player.

One of the standard tools to [manipulate] animated worlds is Java.

با استادی درست کردن

با مهارت انجام دادن

Audible

قابل شنیدن

MP3 files are much smaller than WAV files[True]

When we listen to music, we can't tell the difference between an MP3 file and a WAV file.[True]

In addition = additionally

بطور اضافی یا زائد

Moreover

. علاوه بر این ، بعلاوه

Furthermore

.بعلاوه ، از این گذشته ، گذشته از این ، وانگهی

Similarly

بهمین نحو،بطور مشابه

In other words

As a matter of fact

حقیقت امر اینست که خوب بخواهید بدانید

In fact

درحقیقت ،براستی

First of all

پیش ازهرکاردیگر

For example, for instance, e.g.

مثلا،برای نمونه

RAM contains temporary information; however, ROM contains permanent information.

Streaming=The technique of playing sound and video files as a continuous stream, while they're downloading

جریان

[MP3 is used to compress music files.]

A buffer is an area in a computer's memory where information can be stored for a short time.

Unit 8 : Programming Languages

Unfortunately, computers cannot understand human languages.

متاسفانه ، بدبختانه

Instructions are written in a [high-level language]

(e.g. Pascal, BASIC, COBOL, Ada, C, Lisp).

This is known as the [source program].

Compilers translate the original code

Into a [lower-level language] or [machine code]

so that the CPU can understand it.

User-friendly and easy to learn

[Visual BASIC program]=object-oriented and interactive

[Java] is a programming language developed by [Sun] which is specially designed to run on the Web

دی ۸۸

Gadget

ابزار، اسباب، وسیله

خرداد۸۷

Characteristics of the Java Language

مشخصات

Java is an object-oriented language which can easily remove possible programming errors.

A small program written in Java is called applet.

Defragmentation: the action of arranging fragmented files

Decompression: the action of removing compression from something

Compression
.تراکم، متراکم سازی.هم فشارش، بهم فشردگی، تراکم، اختصار

Restart: to start again
Redesign: to design again

Uncomfortable
ناراحت، نامساعد (مانند هوا)، ناخوشایند
The [opposite] of like is dislike.
روبرو، مقابل، ضد، وارونه ، از روبرو، عکس قضیه

Uninstall: to remove an installed program
Disconnect: to stop the connection

redo, undo, unzip

Unplug
قطع کردن
Decode
گشودن رمز، برداشتن رمز.کشف رمزکردن ، کشف کردن

In streaming, when connection slows down, the amount of data in the buffer decreases but as long as some remains, playback is [uninterrupted].
بی وقفه .پیوسته ، غیر منقلع، قطع نشده ، متوالی، مسلسل.

It is recommended to [unplug] the cable from the back of your computer, if you don't want to use it for a long time.

Flowchart = (a diagram that uses standardized symbols showing the logical relationship between the Various parts of the program).
خرداد ۸۹ -شهریور ۸۷
Smoothly
به نرمی ،بطور صاف ،به ارامی ،یکنواخت

software developers write detailed [documentation] for the users.
Manuals tell us how to use the programs effectively.
Documentation
مستند سازی، مستندات.ارائه اسناد یا مدارک ، توسل بمدارک واسناد، اثبات با مدرک
Effectively
بطور موثر یا کارگر

Unit 9 : Networking
فرستنده و گیرنده (transmitter + receiver → transceiver)
Modulator (digital to analog)
Demodulator (analog to digital)
Hence
از اینرو، بنابر این ، از این جهت، پس از این.
[Protocol] =
Rules that allow the exchange of information over a network
قوانین
For long-distance or worldwide communications, computers
LANs are usually connected into a wide area network (WAN)

The Internet is the biggest LAN in the world[False]

Fiber-optic cables transmit data faster than ordinary telephone lines [true]

Not long ago

Touch-sensitive

"Third-generation" (3G)

Flip up

بازکردن

Transmit

پراکندن ، انتقال دادن ، رساندن ، عبور دادن

Surf

گشت و گذار

Virtual reality (VR) = see a computer simulated world

حقیقت مجازی

Three-dimensional computer simulation

Such as a glove

Head-mounted

سوار شده ، نصب شده

Bluetooth is a standard short-distance wireless technology

خرداد ۹۰

Bluetooth was introduced by Ericsson

used to control all sorts of gadgets in the house

WAP=protocol that enables mobile phones to access the Internet

خرداد ۸۸   ۸۷

Wireless = without the use of wire

Attest

گواه (برچیزی) بودن

Remarkable

A web page is an electronic document written in a computer language called HTML

[HTML] = Hypertext Markup Language

[URL] = Uniform Resource Locator

Browsing - Surfing

مرورگری

[Videoconferencing]=Programs enable users to talk to and see each other.

[Videoconferencing]=To participate in live conversations , using text, audio, and video.

breakfast + lunch → brunch

غذائی که هم بجای ناشتا و هم بجای ناهار صرف شود.

digicam (digital + camera): a digital camera

computerate (computer + literate): computer-literate

computerate =able to use a computer well

FORTRAN (formula + translation): a high-level computing language

شهریور ۸۸

Wi-Fi (Wireless + Fidelity): a way of connecting computers

slo-mo (slow + motion)

Right. And I imagine you need special software to get online

بسیار خوب من تصور می کنم.....

Journalist: OK. Thanks very much.

You've been very helpful.

خبرنگار

Professor: You're welcome.

استاد: خواهش می کنم

قابل توجه ، عالی

Miniaturization

کوچک سازی

Innovation

نوآوری، ابداع

Laptops are simply smaller versions of desktop PCs

Palmtops are handheld computers and weigh less than a kilogram

Palmtops are a type of portable computers

Well, I think they will become more and more popular with business people who travel a lot

Projection keyboard = Virtual keyboard

شهریور ۸۹

The technology already exists

people are not in the habit of talking to a computer yet

عادت

Basically

بطور اساسی

Dictation accurate

املائ، دیکته ، تلقین

Someday

روزی - یکروز در آینده

In a few years' time

.... در عرض چند سال

In the future ...

Recognize

تشخیص دادن ، شناختن

Wearable

Can you imagine?

Wearable technology

فن آوری پوشیدنی

(cybernetic + organism → cyborg)=being

Part machine, part human

Wrist-worn Computers

کامپیوترهای مچی

Attention are actively engaged with the physical environment

Wearable PC is designed for [hands-free] operation so you can even use them while eating.

Hands-free operations are operations that are done without hands.

خرداد۹۰

Hyphen [-]

خط تیره .خط پیوند، خط ربط

Waist-mounted

سوار شده ، نصب شده

By the end of the next century

Some pocket-sized PCs are [pen based] ;that is, they can recognize hand-written characters

[speech-recognition] software is still unreliable.

Glossary of Computer-related Terms & Abbreviations

1[algorithm] a series of instructions or a step-by-step procedure for the solution of a problem

2[buffer] an area in memory used for temporary storage

3[flowchart] a diagram used by programmers to show the logical steps in a computer program

4[streaming] technique for transmitting sound and video such that it can be processed as a continuous Stream ; the files are played while they are downloading

5[AI]= Artificial Intelligence

6[BASIC]= Beginner's All-purpose Symbolic Instruction Code

7[DVD]= Digital Video Disk (or Digital Versatile Disk)

8[CRT]= Cathode Ray Tube

9[IRC]= Internet Relay Chat

10[ISP]= Internet Service Provider

11[LCD]= Liquid-Crystal Display

12[LAN]= Local Area Network

[firewall] a software and hardware device used to control the data going into and out of a network; it is used to prevent unauthorized access to the network by hackers

[FAQ] = Frequently Asked Questions

Modern telecommunications use [fiber-optic] cables because data can be transmitted at a very high speed through the extremely wide bandwidths of glass fibers.