



English for Computer Science and Engineering

Unit 9

Data Communications Hardware: Making It Happen

transmit	send, broadcast	انتقال دادن
vast	enormous, huge	پهناور، وسیع، بزرگ، زیاد، عظیم
array	arrangement of data elements along one or more dimensions	آرایه
trend	tendency	گرایش، تمایل
convergence	assembly, coming together	همگرایی
evolve	change gradually	نمو کردن
concentrator	a device which makes signals more intense	متمرکز کننده
hub	common point of connection for devices in a network	جعبه تقسیم شبکه
router	hardware device which directs messages across a network to their correct destination	مسیر یاب
Interface	equipment or programs which enable two different systems or programs to communicate	رابط، واسط
handle	manage, deal in	اداره کردن

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multiplexer	a device that can interleave two or more activities	تسهیم کننده
modulate	regulate, adjust	تعدیل کردن، تنظیم کردن
destination	place where one is going or sth is sent	مقصد
bolt	flash of lighting	برق صاعقه
couple	pair	زوج، جفت
corporate	common, shared	صنفي، متحد
cyberspace	virtual space, Internet	اینترنت
assume	suppose, presume	فرض کردن
capability	ability, skill	قابلیت
hookup	system having a number of parts designed to work together	مجموعه ابزار

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transceiver	Transmitter/Receiver	دستگاه فرستنده و گیرنده
plug	electrical connector	دوشاخه
latitude	angular distance on a meridian north or south of the equator	عرض جغرافیایی
longitude	angular distance measured east or west from the prime meridian	طول جغرافیایی
pinpoint	locate exactly	با دقت اشاره کردن به
get around	go to different places	پرسه زدن
reservation	act of keeping back	رزرو
subordinate	someone under the authority of another	فرعی ، تابع
complexity	complicated quality	پیچیدگی
establish	set up, found	بنانهادن، تاسیس کردن
handshake	shake hand	دست دادن

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generic	general	عمومی، کلی
relieve	ease, alleviate	تسلی دادن ، فرو نشانیدن
duty	task	وظیفه
content	component	محتوی
prompt	on-screen input	صفحه فرمان
inquiry	exploration, questioning	تحقیق، بازجویی
concentrate	focus, pay attention	متمرکز کردن
interpret	explain, clarify	تفسیر کردن، تعبیر کردن
remote	distant, located far away	دور
in turn	in order	به نوبت

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enterprise	business , company	سازمان
incompatible	inconsistent	نا سازگار
alleviate	Relieve, moderate	آرام کردن ، کم کردن
backbone	physical infrastructure of the Intern	بستر اصلی شبکه

Protecting Resources

confidence	secret; trust	محرمانگی
imply	indirectly suggest	دلالت ضمنی کردن
integrity	unity	یکپارچگی
snoop	pry into the affairs of others, meddle	تجسس کردن
wiretap	electric listening device installed in a room or on a telephone line	استراق سمع
disruption	upset; interruption	قطع ، شکستن
absolutely	definitely; completely	مطلقا، كاملا
crime	illegal act	جرم
abstract	intangible	انتزاعی
comprise	include; be composed of	دربرداشتن ، شامل بودن

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seldom	rarely	بندرت
overall	generally	رويهم رفته ، کلی
elusive	difficult to understand	اغفال کننده
crucial	critical, decisive	وخيم ، بسیار سخت
legitimate	legal	قانونی
saturate	soak or fill completely	اشباع کردن
privacy	confidentiality	پوشیدگی ، پنهانی

Language focus I

Giving examples

When the main aim of a text is to inform the reader about a subject, the writer will often use examples, either to explain a point or to illustrate an idea or argument. When giving examples, it is important to differentiate between the idea itself and the illustration of the idea.

Some expressions for introducing examples are shown in the table below.

for example (e.g.)	examples of	shown by
for instance	instances of	exemplifies
an example (of this)	cases of	shows
as an example	illustrations of	illustrates
such as	exemplified by	a second/third example,
like	illustrated by	etc.
including	seen in	

Examples:

- 1 *Office workers use many computer applications **such as** word processing, spreadsheets, and databases.*
- 2 *Computers have made radical changes in preparing income tax returns. **For example**, in some countries you can now send your income tax return on disk.*
- 3 *Students can make good use of computer technology at school. Essay writing, **for instance**, can be done using a word-processing program.*

Note: Sometimes the markers follow the example, separated by commas, as in 3 above.

Exercise 1

The list below is made up of five groups of words, consisting of five main categories and examples of each category. Find the word groups and then write sentences to show the relationship between the groups of words. Use a different marker for each sentence. One has been done for you.

trackball	<i>bus</i>	PC
mainframe	output device	<i>star</i>
microcomputer	printer	VDU
<i>network configuration</i>	APL	C
programming language	COBOL	<i>ring</i>
mouse	stylus	computer
input device		

Example:

Ring, bus, and star are all examples of network configurations.

Exercise 2

Read the following sentences. Circle the marker and underline the main idea for which the example is given. The first one has been done for you.

- 1 Networks also allow users in one locality to share expensive resources, such as printers and disk-systems. (Unit 6)
- 2 There are a handful of clipboard computers now on the market, including GRIDPad, which is sold in the US; (Unit 2)
- 3 The PC passes the query, written in a special language (e.g. Structured Query Language – SQL), to the mainframe, which then parses the query, returning to the user only the data requested. (Unit 6)
- 4 Here's an example of a simple virus, the Lehigh virus. (Unit 7)
- 5 If you use a shared PC or a PC that has public access, such as one in a college PC lab or a library, be very careful about putting floppies into that PC's drives without a write-protect tab. (Unit 7)

Exercise 3

Not all texts present examples explicitly. In some cases, markers are not used. Read the paragraph below. Circle the main idea and underline the examples of that idea.

The widespread availability of computers has in all probability changed the world for ever. The microchip technology which made the PC possible has put chips not only into computers, but also into washing-machines and cars. Some books may never be published in paper form, but may only be made available as part of public databascs. Networks of computers are already being used to make information available on a world-wide scale. (Unit 1)