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## Mobiltelefonok és tartozékaik jellemzői idegen nyelven

 **NSZFI**  
NEMZETI SZAKKÉPZÉSI  
ÉS FELNŐTTKÉPZÉSI INTÉZET

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A műszaki cikkek eladásával kapcsolatos követelmények

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## MOBILTELEFONOK ÉS TARTOZÉKAINAK JELLEMZŐI ANGOL NYELVEN

### ESETFELVETÉS – MUNKAHELYZET

Az elektronikai áruház mobil kommunikációs eszközöket árusító osztályán angol anyanyelvű, enyhén halláskárosult vásárló érdeklődik. A hagyományos, ill. vegyes értékesítési módot alkalmazó szaküzlet akadálymentesnek tekinthető, mivel a háttérzajok kiszűrése és a jobb beszédérthetőség érdekében az áru bemutatására szolgáló vitrin alá ún. *T-Coil* rendszerű hallásjavító rendszert telepítettek. A rendszerhez tartozó hurkot, ill. vezetékét az elárusító pultba építették be rejtett szereléssel.



1. ábra Akadálymentesített szaküzlet<sup>1</sup>

<sup>1</sup> Forrás: <http://www.medibog.hu/akmentkorny.pdf>

A vevő olyan kártyafüggetlen készüléket szeretne vásárolni, amely négsávós, USB kapcsolaton keresztül adatmodemként is használható, Bluetooth funkcióval ellátott, TV kimenettel felszerelt, az SMS-eket gyorsbillentyűvel író, érintőképernyős, fényképezőgépes, webkameraként is használható, médialejátszós telefon. A zenei fájlok mellett hangoskönyveket is gyűjt, ezeket szerzők szerint rendszerezve mikro SD kártyán szeretné tárolni, ezért fontos a kártyabővítőhely megléte is. Munkájából adódóan sokat közlekedik autóval, ezért a beépített GPS vevő elengedhetetlen. A zenehallgatás és olvasás mellett video fájlok (mp4, .avi, .wmv, .3gp; kodekek: H.264, MPEG-4, Xvid, WMV, H.263) megjelenítésére és megosztására is felhasználná a mobilját. Az eladónak elmondja azt is, hogy minden nap meghallgatná a BBC késő esti hírosszefoglalóját, ha a készülékben lenne beépített FM rádióvevő. A kereskedő — a megadott paraméterek alapján — segít a választásban. A Világhálón barangolva találnak néhány készüléket, ami megfelel a kívánalmaknak, ezek közül három telefon az üzletben is kapható, a többi pedig megrendelhető.

Mivel a vevő már sokat hallott az elektronikus könyvekről, azt is szeretné megtudni, hogy van-e a termékek között olyan készülék, ami PDF fájlokat tud olvasni és alkalmas multimédiás üzenet fogadására, megjelenítésére is. Az eladó felhívja a vevő figyelmét arra, hogy egyes típusokhoz nagy választékban lehet eredeti tartozékokat vásárolni, amit célszerű figyelembe venni a döntésnél. Lényeges szempont az is, hogy milyen terméktámogatást, ingyen letölthető programokat, térképek frissítéseit, stb. biztosít a gyártó. Mivel a vásárló enyhén halláskárosodott és ún. *T-Coil* rendszerű hallókészüléket is használ, a kereskedő arról is meggyőződik a gyártó honlapján, hogy az üzletben árusított, nyakba akasztva kényelmesen viselhető, eredeti, gyári indukciós hurok valóban kompatibilis az adott típusal. A kiválasztott termék bemutatása és kipróbálása közben konkrét, praktikus kérdéseket is megfogalmaz a vevő, melyek az üzembe helyezés kezdeti lépéseire, a mindennapi használatra, a letölthető szoftverekre, frissítésekre, a tartozékokra és a már meglévő, egyéb számítástechnikai készülékeivel való kompatibilitásra vonatkoznak. A vevő kérdésére válaszolva a kereskedő elmondja, hogy a mobil-televízió DVB-H műsorszórás hazánkban is elindult. Az eladó célnyelven válaszol a feltett kérdésekre, igénybe véve az internetes terméktámogatást és a szaküzlettel szerződött márkaszervizben dolgozó munkatársak segítségét is.

## SZAKMAI INFORMÁCIÓTARTALOM

### 1. Reading

Can we still call them phones?

The flagships of the cellular world are called smartphones, iPhones or mobile computers.

A smartphone that allows the user to install and run advanced applications based on specific programs. Smartphones run complete operating system software providing a platform for application developers.



2. ábra Figure 2 Smartphones<sup>2</sup>

An iPhone device is an Internet and multimedia enabled smartphone designed and marketed by Apple Incorporation. An iPhone functions as a camera phone, an MP5 player, and Internet client with Wi-Fi connectivity. The user interface is usually built around the device's multi-touch screen including a virtual keyboard rather than a physical one. Third party applications are available from the "App Store". These apps have diverse functionalities, including social networking, GPS navigation and games.

N900 model is called a "computer" by Nokia, the producer. Are they right or wrong? If you do not believe it visit their official web site and see for yourself.

When you switch on the device the desktop is displayed. You can personalise your desktop with different widgets, bookmarks, background images and shortcuts to applications and contacts. The desktop contains the application menu, the status area, your network service provider and the widgets.

The icons of different applications — *Maemo Browser, Phone Conversations, (SMS, Internet Messenger) Contacts, Camera Photos, Media player, Email, Calendar, Ovi Maps, Clock, Notes, Calculator, Adobe PDF Reader (try & buy version), File manager, RSS reader, Sketch* — are shown on the 3.5" touch screen.



3. ábra Figure 3 Different applications<sup>3</sup>

<sup>2</sup> Source: <http://www.apple.com/iphone/apps-for-iphone/>

(29/06/2010)

<sup>3</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)

Multimedia messages can be easily received and displayed.



4. ábra Figure 4 E-mails and messaging<sup>4</sup>

Maemo Browser powered by Mozilla technology with an intuitive menu that allows you to navigate through programs easily. With the help of Maemo Software Development Kit it is possible to develop your own applications for your device. For further information, see <http://www.maemo.nokia.com>



5. ábra Figure 5 Web browsing<sup>5</sup>

As you can see it has got an integrated GPS receiver with Ovi maps application. You can select the required view, rich 3D, satellite and hybrid maps. With the help of this device you are also able to search maps for addresses and places and find your destination with free routing.

<sup>4</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)

<sup>5</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)





6. ábra Figure 6 GPS and routing<sup>6</sup>

You can see is a sort of device that blurs line between smartphones and portable computers. It has got an Internet Tablet that has a touchscreen with 800X480 pixel resolution that can display 16 million colours. The three-way accelometer is increasingly common on smartphones today. The three-row QWERTY keyboard has variants for buyers in different countries where English is not spoken as a first language.



7. ábra Figure 7 The operating system<sup>7</sup>

Virtual keyboard is also available. The 5 Megapixel camera has a CMOS sensor, Carl Zeiss optics, Tessar lens, autofocus and a dual LED flash. The image formats are JPEG and EXIF.

<sup>6</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)

<sup>7</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)



8. ábra Figure 8 Capture images and record video clips<sup>8</sup>

It is capable of recording video up to 640X480 pixels. It records video in MP4 format. If you have an existing sharing record and a working Internet connection, you can share your images or video clips by uploading them.



9. ábra Figure 9 Video sharing and playback<sup>9</sup>

As there is a little stand built into the back of this device which allows you to prop it up so you can watch the screen without holding on to it. The OMAP 3 microprocessor is actually three processors in one block. This feature allows the user to run multiple applications simultaneously without slowing down. The high-speed USB 2.0 micro B connector can be used for battery charging, data storage and data synchronisation. It has got 1GB RAM, 32 GB of built in internal memory. It also has the potential to increase memory with the help of micro SD memory cards. FM transmitter functionality that lets you output audio content to a car or home FM radio. With quad-band GSM and 3G HSDPA support, the N900 is ready to take part in global communication and stay connected. Thanks to its quad band features, this phone supports all major GSM frequency bands. The four bands include the 850 and 1900 MHz bands – used in the USA – and 900/1800MHz, used in most other parts of the world. In comparison with to the previous 2G and 2.5G services, 3G allows simultaneous use of speech and data services and higher data rates. Today's 3G systems can in practice offer up to 14.0 Mbit/s on the downlink and 5.8 Mbit/s on the uplink. A HSDPA phone is an enhanced 3G — in other words — it is an advanced third generation telephone. HSDPA stands for High Speed Downlink Packet Access.

<sup>8</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)

<sup>9</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)

Music playback and streaming are also possible.



10. ábra Figure 10 Media player and FM transmitter<sup>10</sup>

In addition to the pre-installed games you can search for and install new programs with the Application Manager.



11. ábra Figure 11 Included games: Bounce, Blocks, Chess and Mahjong<sup>11</sup>

## 2. Watching and Listening

So, is it a computer or phone?

Before you give your final answer, see this video clip by the title of *"first impression"*:  
<http://www.youtube.com/watch?v=IHa3AoNdgIY>

<sup>10</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)

<sup>11</sup> Source: <http://www.nokia.co.uk/support/product-support/n900/specifications>

(29/06/2010)



## TANULÁSIRÁNYÍTÓ

## 1. Tuning in

Read the statements (1–12). Study the pictures (Figure 3–11) and the technical specifications of this mobile then fill in the chart below. Put a tick (✓) if the sentence is true or a cross (✗) if it is false. Focus on the statements. Not all the technical details are necessary to fill in the chart. Consult an online dictionary and visit the official Nokia website if needed. Some useful pages listed below. Browse the Net for more sites. In your task the first two examples are given.



12. ábra Figure 12 Free instant access to word definitions, thesaurus entries, usage examples, and more<sup>12</sup>



13. ábra Figure 13 Computer, Internet and telecommunications terms<sup>13</sup>



14. ábra Figure 14 The only online dictionary and search engine you need for computer and Internet technology definitions<sup>14</sup>

1.	The application menu displays 15 icons of different applications.	✓
2.	This device works with SD, SDHC and SDXC memory cards.	✗
3.	If you want to connect your mobile to the Internet you can use a wireless data connection.	
4.	With Bluetooth connectivity, you can make a wireless connection to other compatible devices, such as mobile phones, PCs, headsets and car kits.	
5.	There is only one video camera in this mobile.	
6.	If you have a compatible TV-out cable you can play video clips on a TV.	

<sup>12</sup> Source: <http://www.yourdictionary.com/>

(02/07/2010)

<sup>13</sup> Source: <http://www.techdictionary.com/>

(02/07/2010)

<sup>14</sup> Source: <http://www.webopedia.com/>

(02/07/2010)

7.	With the built-in FM transmitter you can play files in your mobile using an FM receiver such as a car system or home hi-fi tower.	
8.	You can connect your device to your computer, using the USB data cable.	
9.	On this device you cannot read an electronic book, because there is no built-in e-book reader for this purpose.	
10.	The usage of this mobile is limited, because it cannot automatically change between GSM and 3G networks.	
11.	With the Maemo browser you cannot view HTML web sites but you are able to view XHTML web pages that are specifically designed for mobile phones.	
12.	With the help of this device, real time voice calls is possible over a data network that uses IP.	

Technical Specifications<sup>15</sup>

General	Network(2G)	GSM 900 / GSM 1800 / GSM 1900 / GSM 850
	Network (3G)	HSDPA 2100 / HSDPA 900
	Form factor	Slider
	Antenna type	Internal
	SAR Value	0.800 W/Kg
Size	Weight	181.0 g (with battery)
	Dimensions	110.9 x 59.8 x 18.0 mm
Display	Type	Graphical
	Coloured	Yes, TFT resistive touchscreen, 16M colours
	Size	3.50 inch
	Resolution	800 x 480 pixels
		<ul style="list-style-type: none"> <li>- Proximity sensor for auto turn-off</li> <li>- Accelerometer sensor for auto-rotate</li> <li>- Full QWERTY keyboard</li> </ul>
Memory		<ul style="list-style-type: none"> <li>- Photocall - 32 GB storage, 256 MB RAM</li> <li>- microSD (TransFlash), up to 16GB</li> <li>- CPU ARM Cortex A8 600 MHz, PowerVR SGX graphics</li> </ul>
	Polyphonic ringtones	Yes
	Ringtone profiles	<ul style="list-style-type: none"> <li>Yes</li> <li>- MP3 ringtones</li> <li>- Speakerphone with stereo speakers</li> <li>- 3.5 mm audio jack</li> </ul>
Networking	HSDPA speed	10.2 Mbps
	GPRS	Yes, Class 32
	EDGE	Yes, Class 32
	HSCSD	Yes

<sup>15</sup> Source: <http://mobile.softpedia.com/phones/Nokia/Nokia-N900.shtml>

	WLAN	Yes, Wi-Fi 802.11 b/g, DLNA
	USB	Yes, 2.0 micro USB
	Bluetooth	Yes, 2.1 with A2DP
	WAP	Yes
	Browser	Yes, WAP 2.0/xHTML, HTML (Maemo Browser), RSS feeds
	Email client	Yes
		– Maemo 5 operating system
		– Instant Messaging
		– Push Email
		– GPS with A-GPS support
		– Digital compass
		– HSUPA, 2Mbps
		– HSDPA 1700
Features	Vibration	Yes
	SMS	Send / Receive
	MMS	Send / Receive
	Camera	Built-in, 5 MP, 2592x1944 pixels, Carl Zeiss optics, autofocus, Dual LED flash, video light, geo-tagging, video (WVGA 848 x 480@25fps), secondary VGA camera
	Java	Yes, MIDP 2.1
	Games	Yes, (changeable)
	Clock	Yes
	Alarm	Yes
	Calculator	Yes
	Calendar	Yes
	To-do list	Yes
	Voice dialling	Yes
	Voice memo	Yes
	T9	Yes
	Multiple numbers/ contact	Yes
	Handsfree	Yes
	Headset jack	Yes
	FM Radio	Yes
	Other features	– MP3/WMA/WAV/eAAC+ music player
		– WMV/RealVideo/MP4/AVI/XviD video player
		– TV-out
		– Document viewer (Word, Excel, PowerPoint, PDF)
		– Photo editor
		– FM transmitter

– Skype and GoogleTalk VoIP integration

Standard Battery Type	Li-Ion
Amperage	1320 mAh

## 2. Extend your mobility

In the following section you can read the shop assistant's suggestions about the best and the most useful accessories<sup>16</sup> to buy for Nokia N900. See the pictures (Figure 15). Can you recognise any of them? The first parts of the sentences are numbered, (1–6) the second parts are marked with letters (A–F). Finish the sentences. Write your answers in the box. The first answer is given.



15. ábra Figure 15 Mobile accessories<sup>17</sup>

- |    |                                                                                                            |   |                                                                                              |   |   |
|----|------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------|---|---|
| 1. | This carrying case ....                                                                                    | A | ... high-quality leather and includes a soft lining to help keep your display clean          |   |   |
| 2. | This sleek carrying case is made from ...                                                                  | B | ... securely around your neck and is made from hardwearing materials that are built to last. |   |   |
| 3. | LPS-5 wireless loopset connects to your T-coil-equipped hearing aid ...                                    | C | ... when you navigate on the road with Ovi Maps.                                             |   |   |
| 4. | This compact loopset fits comfortably and ...                                                              | D | ... and offers excellent audio quality for all your handsfree calls.                         |   |   |
| 5. | This compact holder holds a range of mobile devices securely and can be angled for the best visibility ... | E | ... or it can be mounted to your dashboard with the optional adhesive pad                    |   |   |
| 6. | It attaches easily to your windscreen using the included suction mount ...                                 | F | ... helps to keep your device protected and close to hand.                                   |   |   |
| 1  | 2                                                                                                          | 3 | 4                                                                                            | 5 | 6 |

<sup>16</sup> Source: <http://www.nokia.co.uk/find-products/accessories/all-accessories>

<sup>17</sup> Source: <http://www.nokia.co.uk/find-products/accessories/all-accessories>

F

### 3. Keep your hands free

Look at this picture (Figure 16) and read the sentences (A–E) below. Which sentence is the odd one out? Circle the letter. For extra piece of information use the link in the footnote at the bottom of the page.



16. ábra Figure 16 Display car kit CK 600<sup>18</sup>

- A. In the picture you can see the display unit of a car kit.
- B. This car kit contains 10 different elements such as a hands-free unit, an ISO cable, a power cable, microphone, a display, charging cable, with a 2.0 mm plug, an input device with Navi wheel, a loudspeaker, a pouch (for storing the display when it is not used) and a CD that contains this user and installation guide.
- C. Only Nokia mobiles are compatible with this device.
- D. This car kit can be paired with a compatible mobile phone and a media player at the same time.
- E. With the help of this kit you can conveniently make and answer calls hands-free.

### 4. TV on your mobile<sup>19</sup>

Complete the explanation with the appropriate word or expression. The first answer is given.

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<sup>18</sup>

Source: [http://europe.nokia.com/appmanager/UnitedStatesEnglishEUROPE\\_NOKIA\\_COM\\_3/Get\\_support\\_8;JSESSIONID\\_NCOM=dfpZM11T4Z724JJ9c2kTGvLf2Wh4rF117mKGTpfYnJKBjd2tIOLw!337486174?\\_nfpb=true&\\_windowLabel=T395892115471261545402049&\\_pageLabel=P3045893&wsrp-urlType=blockingAction&wsrp-url=&wsrp-requiresRewrite=&wsrp-navigationalState=&wsrp-](http://europe.nokia.com/appmanager/UnitedStatesEnglishEUROPE_NOKIA_COM_3/Get_support_8;JSESSIONID_NCOM=dfpZM11T4Z724JJ9c2kTGvLf2Wh4rF117mKGTpfYnJKBjd2tIOLw!337486174?_nfpb=true&_windowLabel=T395892115471261545402049&_pageLabel=P3045893&wsrp-urlType=blockingAction&wsrp-url=&wsrp-requiresRewrite=&wsrp-navigationalState=&wsrp-)

<sup>19</sup> Source: <http://www.nokia.co.uk/find-products/accessories/all-accessories/home-and-office/desk-stands/nokia-mobile-tv-receiver-su-33w>





17. ábra Figure 17 Mobile TV receiver. With this device you can watch DVB-H mobile TV broadcasting via Bluetooth on the screen of your compatible Nokia mobile device <sup>20</sup>

At present, owners of (1) *DVB-H enabled* mobile handsets can watch without any (2) ..... fee the programs of Duna TV, Duna II Autonómia, ATV, Hír TV and the channels m1 and m2 of Hungarian Television, and can listen the (3) ..... programs of Hungarian Radio (MR1-Kossuth, MR2-Petőfi, MR3-Bartók) but thanks to the (4) ..... of broadcasting the number of channels can be (5) ..... up to as many as 20 in the future.

Each of the stations are (6) ..... on the same frequency, on the No 38 channel of the UHF band, the transmitters make up a synchronised single frequency network (SFN).

(1) DVB-H enabled  
applied mode

increased  
public service

broadcasting  
subscription

Megoldások:

1. feladat

Tuning in

Answers:

1	2	3	4	5	6	7	8	9	10	11	12
✓	✗	✓	✓	✗	✓	✓	✓	✗	✗	✗	✓

Comments: (5) You can use this mobile as a web camera.

2. feladat

Extend your mobility

Answers:

<sup>20</sup> Source: <http://www.nokia.co.uk/find-products/accessories/all-accessories/home-and-office/desk-stands/nokia-mobile-tv-receiver-su-33w>

1	2	3	4	5	6
F	A	D	B	C	E

### 3. feladat

Keep your hands free

Answer: Sentence "C" is the odd one out, because it is false.

*Comments: Check the compatibility on the official web site.*

*<http://www.nokia.co.uk/find-products/accessories/all-accessories/car-solutions-accessories/car-kits-accessories/nokia-display-car-kit-ck-600/compatibility>*

Nokia CK-600 Car Kit is compatible with several other manufacturers' products eg. Samsung M110, Motorola KRZR K1, LG KE 850 PRADA etc.

### 4. feladat

TV on your mobile

Answers: (1) DVB-H enabled, (2) subscription, (3) public service, (4) applied mode, (5) increased, (6) broadcasting.

**ÖNELLENŐRZŐ FELADATOK****1. feladat**

Can we still call them phones?

Brush up your memory. Answer the questions on the basis of the "reading" section. Do this exercise in writing.

Questions:

1. What applications or programmes might be seen on the desktop when you switch on your mobile? Make a list.
2. In what way can you personalize your desktop?
3. Did you visit the site mentioned in the reading section? <http://www.maemo.nokia.com>
  - If so, what were the Maemo applications you liked the best? Why?
4. What is "Maps" application good for?
5. What are the main features of the camera?
6. What are the advantages of using an OMAP3 microprocessor in this mobile?
7. What is "FM transmitter" function good for?
8. What does quad-band GSM mean?
9. What does HSDPA stand for?

<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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4. What was your first (second) impression?

### 3. feladat

Tuning in

Answer the questions. Do this exercise in writing.

1. What is the maximum capacity of the SD card you can insert into this device?
2. What does WLAN stand for?
3. In what other way can you make wireless connection between your mobile and an other device?
4. What is a VGA camera good for?
5. How can you connect your TV to your mobile?
6. What is an FM transmitter good for?
7. What are XHTML web pages designed for?

MUNKANYAG

### 4. feladat

Extend your mobility

Brush up your memory. Answer the questions. Do this exercise in writing.



Questions:

1. What were the accessories in the picture (Figure 15)?
2. What accessory would you recommend to a customer who wears a T-Coil hearing aid? Why?

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**5. feladat**

Keep your hands free

Browse the Net for some non-Nokia products that are compatible with Nokia CK-600 car kit. Make up a list. Do this exercise in writing.

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**6. feladat**

TV on your mobile

Answer the questions. Do this exercise in writing.

Questions:

1. How much do you have to pay a month to be able to receive the following DVB-H programmes?
  - *Duna TV, Duna II Autonómia, ATV, Hír TV, m1 and m2 of Hungarian Television.*
2. What sort of device do you need if you want to watch "mobile TV"?
3. What is the difference between public service broadcast and commercial stations?
4. How many DVB-H channels will be available in the near future?
5. What does SFN stand for?



## MEGOLDÁSOK

### 1. feladat

1. (1) Maemo Browser, (2) Phone Conversations, (3) (SMS, Internet Messenger) (4) Contacts, (5) Camera Photos, (6) Media player, (7) Email, (8) Calendar, (9) Ovi Maps, (10) Clock, Notes, (11) Calculator, (12) Adobe PDF Reader, (13) File manager, (14) RSS reader, (15) Sketch
2. With different widgets, bookmarks, background images and shortcuts to applications and contacts. Comment: web widget is a portable chunk of code. Widgets often take the form of on-screen tools (clocks, event countdowns, auction-tickers, stock market tickers, flight arrival information, daily weather etc.).
3. You can search for streets or roads, places. You can also go free and find your destination.
4. 5 MP, autofocus, dual LED flash, video light, geo-tagging, video WVGA, secondary VGA camera
5. Possible answer: I like the "ForecaWeather" widget the best because if you download it you will always have the latest and most accurate weather forecasts for over 140,000 locations around the globe.
6. This microprocessor is able to run multiple applications simultaneously fast.
7. If your car or home hi-fi system cannot play back certain files but it can receive FM programs, you can play the files back with your mobile computer that transmit FM radio waves.
8. 850MHz, 1900 MHz, 900MHz, 1800MHz.
9. High-Speed Downlink Packet Access is a new protocol for mobile telephone data transmission. It is known as a 3.5G technology. Comment: (G stands for generation)

### 2. feladat

1. "... small and there is no dedicated number keys ..."
2. As you can see in the film, you can draw a circle clockwise to zoom in or anticlockwise to zoom out.
3. "... a bit slow... a bit animated....it's quite struggling with ...I'm not happy with the result"
4. This phone is a good example for extraordinary versatility, but certain functions offer limited usage. All in all it might be a good choice. (*possible answer*)

### 3. feladat

1. 16GB
2. Acronym for wireless local-area network that uses high-frequency radio waves.
3. With Bluetooth connection that is a short range radio technology.
4. VGA is the abbreviation of video graphics array. In this mobile VGA camera can be used as a secondary camera or web camera.
5. With a help of a compatible TV-out cable.

6. FM radio transmitter modulates the frequency of a carrier signal and the receiver processes the carrier signal to extract the analogue information.
7. Short form for Extensible Hypertext Mark-up Language. It is a hybrid form between HTML and XML.

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#### 4. feladat

1. A wireless loopset, a carrying case and a compact holder
2. A loopset is able to connect to a T-Coil-equipped hearing aid ensuring an excellent audio quality for handsfree calls.

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#### 5. feladat

*Nokia CK-600 Car Kit is compatible with Samsung M110, Motorola KRZR K1, LG KE 850 PRADA etc.*

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#### 6. feladat

1. It's free of charge.
2. DVB-H receiver and a compatible mobile phone. You can see the programmes on the screen of your mobile.
3. Public service is something that is done to help people rather than to make profit. Commercial channels are more concerned with profit and being popular than with quality.
4. Approximately twenty channels.
5. A single-frequency network or SFN is a broadcast network where several transmitters simultaneously send the same signal over the same frequency channel.
6. Nokia 5330 is a good example. See the presentation on YouTube.

*<http://www.youtube.com/watch?v=SXJWpzAA00I>*

## IRODALOMJEGYZÉK

### FELHASZNÁLT IRODALOM

<http://www.nokia.co.uk/> (08/07/2010)

<http://www.apple.com/iphone/> (08/07/2010)

<http://www.htc.com/www/> (08/07/2010)

### AJÁNLOTT IRODALOM

<http://www.nokia.co.uk/> (08/07/2010)

<http://www.apple.com/iphone/> (08/07/2010)

<http://www.htc.com/www/> (08/07/2010)

<http://www.sonyericsson.com/cws/products/mobilephones> (08/07/2010)

<http://www.motorola.com/Consumers/XE-EN/Home> (08/07/2010)

<http://www.samsungmobile.co.uk/> (08/07/2010)

<http://www.lg.com/uk/mobile-phones/index.jsp> (08/07/2010)



A(z) 0123–06 modul a25–ös szakmai tankönyvi tartalomeleme felhasználható az alábbi szakképesítésekhez:

A szakképesítés OKJ azonosító száma:	A szakképesítés megnevezése
31 341 01 0010 31 03	Műszakicikk eladó
51 341 01 0000 00 00	Műszakicikk-kereskedő

A szakmai tankönyvi tartalomelem feldolgozásához ajánlott óraszám:

12 óra

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A kiadvány az Új Magyarország Fejlesztési Terv  
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