

ÉRETTSÉGI VIZSGA • 2010. október 22.

**INFORMATIKA
ANGOL NYELVEN**

**KÖZÉPSZINTŰ GYAKORLATI
ÉRETTSÉGI VIZSGA**

**JAVÍTÁSI-ÉRTÉKELÉSI
ÚTMUTATÓ**

**NEMZETI ERŐFORRÁS
MINISZTERIUM**

Introduction

The exercises are marked in accordance with the guide given in the key and guide for evaluation. In the key the marks given for the major logical units are in the bordered parts. The parts without bordering contain the breakdown of the marks and reference to situations where the given mark can be awarded or can not be awarded.

To ensure unified evaluation, please do not divert from the marking in the guide. The marks can not be broken down further than indicated in the guide. If several solutions are given for the same problem, please evaluate the solution with the most given marks. In the case of several good solutions no extra marks can be awarded.

The evaluation form, which only contains the marks for the major evaluation units, can be found at the end of the guide. One evaluation form should be filled for each examination paper and it should be attached to the examination paper (to the candidate's exercise sheet). The candidate receives this form at the seeing of the examination paper. The total marks awarded for the individual exercises, the marks awarded for the exam and achieved percentage should also be indicated on the last page of the examination paper, in the tables provided.

For further processing please fill in the electronic evaluation form attached to the solution as well.

1. Szigetvár

Creating document <i>szigetvar</i>	3 marks
Saved the document in the default format of the word processor as <i>szigetvar</i>	1 mark
Deleted the extra spaces (used for alignment) and end of paragraph signs	1 mark
The mark can be awarded only if there are no double spaces, empty paragraphs in the document and no line starts with space.	
Corrected word Subic to Šubić	1 mark
The mark can be awarded if at least one character was corrected correctly.	
Setting the general properties of the document	3 marks
The page size is A4, the top and bottom margins are 2 cm, the left and right margins are 2.5 cm	1 mark
The font type of the document text is Times New Roman (Nimbus Roman) with the exception of the header and the footnote, whose font type is sans-serif	1 mark
The font size of the subtitles is 16 points, the font size of the remaining part is 11 points	1 mark
The mark can be awarded if the font size of the header is different.	
Creating the header	3 marks
The text in the header is according to the example	1 mark
The header contains the <i>page number/number of pages</i>	1 mark
The mark can be awarded if instead of the number of pages a value equivalent to the effective number of pages of the document is displayed.	
The given parts are aligned to the left margin, the centre of the page and the right margin, respectively	1 mark
The mark can be awarded in the case of both table and tab layout, if the part belonging to the page number is aligned to the centre of the page and the name is aligned right, to the right margin.	
In the case of tab layout the position of the centre tab is 8 cm, the position of the right tab is 16 cm.	
Creating the title	4 marks
The title is broken into two lines, the font size of the first and second lines is 28 points and 16 points, respectively	1 mark
The font style of the first line is small caps	1 mark
The title is aligned centered, it is separated by spacing from the next paragraph	1 mark
The background colour of the title paragraph is grey	1 mark

Formatting the text body	4 marks
At least two of the followings were set in at least 5 paragraphs:	
<ul style="list-style-type: none"> The paragraphs are justified. They are separated from the paragraphs before and after them by spacings. The indent of the first line is between 0.5 and 1.5 cm. 	1 mark
Each of the following settings is correct in at least 5 paragraphs:	
<ul style="list-style-type: none"> The paragraphs are justified. They are separated from the paragraphs before and after them by spacings. The indent of the first line is between 0.5 and 1.5 cm. 	1 mark
Each such paragraph has the same formatting	1 mark
The mark can be awarded if at least two properties were set and each paragraph (perhaps with the exception of paragraph “ <i>His important works are:</i> ”) has the same formatting.	
The quotation in the text body is in italics	1 mark
Formatting the subtitles	5 marks
Set double line for the top and bottom borders of the subtitles	1 mark
The mark can be awarded if at most one paragraph was formatted incorrectly.	
The distance between the text and the border (top and bottom) is greater than the default value	1 mark
The mark can be awarded if at most one paragraph was formatted incorrectly.	
The right indent of the paragraphs was changed (the indent is greater than half of the width of the text area), and spacings were set before and after them	1 mark
The mark can be awarded if at most one paragraph was formatted incorrectly.	
Each subtitle is formatted in the same way	1 mark
The mark can not be awarded if fewer than three properties of the paragraphs were set correctly.	
Ensured that paragraph “ <i>The memory of the siege</i> ” starts on a new page through paragraph formatting or manual page break	1 mark
The title and the subtitles are in bold	1 mark
Inserting the pictures	5 marks
Picture <i>szigetvar.jpg</i> was inserted into the correct place and was aligned to the right margin	1 mark
Set the picture size to 50 percent of the original size	1 mark
Picture <i>zrinyi.jpg</i> was inserted into the correct place and was aligned to the left margin	1 mark
Set the height of the picture according to the size of the excerpt keeping the aspect ratio	1 mark
The pictures have a double-line border	1 mark

Formatting the table	6 marks
The table was created, the text is wholly in the table	1 mark
The table has no border, it is aligned centered	1 mark
The width of the first three columns is 4–4 cm, the width of the last column is 3 cm	1 mark
The row height is exactly 0.7 cm	1 mark
The first row is in bold, the other rows are in italics	1 mark
The first three columns are aligned left, the last column is aligned right	1 mark
The last two marks can be awarded even if no table was created.	
Creating the footnote	2 marks
A footnote was added to text “ <i>Boj pod Sigetom</i> ”	1 mark
The text of the footnote is correct	1 mark
Formatting the poem	2 marks
The poem was transformed into one verse – one paragraph format	1 mark
The verses are aligned centered, there is a spacing between them	1 mark
Listing the works	2 marks
Paragraph “ <i>His important works are</i> ” is indented from the left, the indent of the paragraphs of the list is even greater	1 mark
The bullet of the list is picture <i>bullet.png</i>	1 mark
Total:	40 marks

2. Bunsen burner

The background colour of each slide is light yellow, colour with RGB code (255, 255, 200) and the text colour is dark blue, colour with RGB code (0, 32, 96).	2 marks
The background colour of the slides is light yellow, colour with RGB code (255, 255, 200)	1 mark
The text colour is dark blue, colour with RGB code (0, 32, 96)	1 mark
The marks can be awarded if the settings are the same for each slide (or the slide template) and at least two slides were created.	
The slide number is in the footer	1 mark
The mark can be awarded if the slide number appears on the right of the footer on each slide (or the slide template) and at least two slides were created.	
Each text of the presentation is of Arial (Nimbus Sans) font type	1 mark
The mark can be awarded if the setting is correct on each slide created.	

Settings of the first slide	9 marks
There is a horizontal line of width 9 points through the whole width of the slide	1 mark
There is a circle of diameter 6 cm on the slide	1 mark
The diameter of the circle fits on the line	1 mark
The font size of the text on the line is 72 points	1 mark
The letters of the text touch the line and the line does not cross any letter	1 mark
The colour of the line, the circle and the text is reddish brown, colour with RGB code (205, 85, 35)	1 mark
Picture <i>bllogo.png</i> was inserted into the slide	1 mark
The height of the picture was decreased to 4 cm keeping the aspect ratio	1 mark
The picture is in the circle	1 mark
Settings of the group	3 marks
The circle and the Bunsen burner are grouped	1 mark
The group was inserted into the 2 nd , 3 rd and 4 th slides	1 mark
It is in the upper right corner and its height is decreased to 3 cm keeping the aspect ratio on all three slides	1 mark
Contents and settings of the second slide	7 marks
Picture <i>structure.png</i> and the text according to the example are inserted into the slide	1 mark
The 5 label boxes are to the right of the picture and have the same size	1 mark
The vertical borders of the boxes are collinear	1 mark
The lines of the boxes of the explanatory texts point at the point at the corresponding parts	1 mark
The fill colour of the label boxes is reddish brown, colour with RGB code (205, 85, 35) and their border is dark blue, colour with RGB code (0, 32, 96)	1 mark
The text colour in the boxes is the same light yellow as the background colour of the slides	1 mark
The boxes contain the correct texts, which are aligned centered	1 mark
The last five marks for the labels and their formatting can be awarded only if the given setting is correct for at least 4 boxes.	
Settings of the third slide	1 mark
The mark can be awarded if the slide contains the correct text in a bulleted list.	
Settings of the fourth slide	3 marks
The slide contains the correct texts and the 3 pictures in the order given in the example	1 mark
On the slide the 3 pictures are aligned centered vertically and are spaced evenly horizontally according to the example	1 mark
The pictures and the captions are centered horizontally relative to each other	1 mark

Animation settings of the slide show	3 marks
On the slides the titles and the paragraphs float in automatically after each other	1 mark
They float in slower than the default value from the left	1 mark
The captions of the 2 nd slide and the pictures of the 4 th slide appear with an animation different from the above one	1 mark
The marks can be awarded if the settings are correct on at least 3 slides.	
Total:	30 marks

3. Combino

Importing the data, saving as <i>combino</i> in the correct format	1 mark
Opened data file <i>counting.txt</i> , then saved it in the default format of the spreadsheet processor as <i>combino</i> .	
Numbering of the eight doors	2 marks
Ranges <i>B2:I2</i> and <i>B26:I26</i> contain the correct numbers from 1 to 8	1 mark
The cells contain “Door 1”, “Door 2” etc. according to the example	1 mark
If the contents of only one range are correct, then 1 mark can be awarded.	
Determined the number of passengers getting on and off the tram	3 marks
Cells <i>J2</i> and <i>J26</i> contain the word “Total”	1 mark
Determined the number of passengers getting on the tram in range <i>J3:J20</i>	1 mark
Determined the number of passengers getting off the tram in range <i>J27:J44</i>	1 mark
For example: cell <i>J3</i> contains: <code>=SUM(B3:I3)</code>	
Created the heading in range <i>L1:O2</i>	1 mark
Range <i>L3:L20</i> contains the names of the stops	1 mark
The analysis of the results of the passenger counting	8 marks
In cell <i>M3</i> the number of passengers on the tram starting from the terminal is correct	1 mark
For example: cell <i>M3</i> contains: <code>=J3</code>	
In cells <i>M4:M19</i> the number of passengers on the tram starting from the given stop is correct	1 mark
For example: cell <i>M4</i> contains: <code>=M3+J4-J28</code>	
In range <i>N3:N19</i> calculates the minimum number of standing passengers correctly in one cell	1 mark
For example: cell <i>N3</i> contains: <code>=M3-O1</code>	
The expression can be copied flawlessly	1 mark
For example: cell <i>N3</i> contains: <code>=M3-O\$1</code>	

The number of standing passengers can not be negative For example: cell <i>N3</i> contains: <code>=IF ((M3-O\$1) >=0;M3-O\$1;0)</code>	1 mark
In range <i>O3:O19</i> calculates the percentage of utilisation correctly in one cell For example: cell <i>O3</i> contains: <code>=M3/M1</code>	1 mark
The expression can be copied flawlessly and each cell contains the correct value For example: cell <i>O3</i> contains: <code>=M3/M\$1</code>	1 mark
Set percentage format in range <i>O3:O19</i> with one decimal digit	1 mark
The contents of cells <i>L22:L25</i> are correct	1 mark
The mark can be awarded only if the contents of at least 3 cells are correct.	
Calculations in cells <i>M22:N25</i>	6 marks
Determined the maximum number of passengers in cell <i>M22</i> and the maximum number of passengers getting on the tram in cell <i>M25</i> For example: cell <i>M22</i> contains: <code>=MAX (M3 :M19)</code>	1 mark
<i>and</i> cell <i>M25</i> contains: <code>=MAX (J3 :J20)</code>	
Determined the average number of passengers in cell <i>M23</i> For example: cell <i>M23</i> contains: <code>=AVERAGE (M3 :M19)</code>	1 mark
Determined the number of sections with more passengers than the average in cell <i>M24</i> For example: cell <i>M24</i> contains: <code>=COUNTIF (M3 :M19; ">"&M23)</code>	2 marks
Cell <i>N25</i> contains the name of the stop using a function For example: cell <i>N25</i> contains: <code>=INDEX (A3 :A20;MATCH (M25;J3 :J20;0);1)</code>	2 marks
The marks can be awarded if function <code>VLOOKUP ()</code> was used with correct parameters.	
The font colour of cells that contain calculated values is blue	1 mark
The mark can be awarded if the font colour of at most 5 cells is incorrect.	
Formatting the cells of the headings	3 marks
In the first row and in cells <i>A2</i> , <i>A26</i> and <i>L2</i> the font size is 20 points	1 mark
The title, “ Combino tram on line number 6 ” is aligned centered in cells <i>A1:J1</i> , which are merged	1 mark
The column width is such that each text is visible and the text in cell <i>N2</i> is wrapped into three lines	1 mark

The column chart	3 marks
The column chart is on the same worksheet as the data and its shows correct values	1 mark
The mark can be awarded even if the Moszkva tér terminal is excluded from the displayed values.	
The title is “Utilisation of tram number 6” and there is no legend	1 mark
On the horizontal axis the name of each stop is visible	1 mark
Total:	30 marks

4. Notebook

Creating the database	3 marks
Created the database with name <i>notebook</i> and imported the tables	1 mark
Correct data types were set for the given fields	1 mark
The mark can not be awarded if the type of field <i>display</i> in table <i>notebook</i> is not a real number.	
Set the given field as key in tables <i>notebook</i> , <i>processor</i> , <i>opsystem</i> , table <i>notebook</i> contains the identifier <i>id</i>	1 mark
Each query and report contains exactly the desired fields and expressions	1 mark
The mark can not be awarded if the candidate solved fewer than three exercise parts.	
Query <i>2thereis</i>	2 marks
Filtered correctly for the hard disk size	1 mark
Filtered correctly for the notebooks in stock	1 mark
For example: <pre>SELECT manufacturer, type, display FROM notebook WHERE pieces>0 AND haddisk>=300;</pre>	
Query <i>3manufacturer</i>	2 marks
Used a suitable function (<code>COUNT()</code>) to determine the types belonging to the manufacturers	1 mark
Grouped according to manufacturers	1 mark
For example: <pre>SELECT manufacturer, COUNT(*) AS pieces FROM notebook GROUP BY manufacturer;</pre>	
Query <i>4total</i>	2 marks
Determined the value of notebooks of a given type correctly in million pounds	1 mark
Used a suitable function for summing (<code>SUM()</code>)	1 mark
For example: <pre>SELECT SUM(pieces*price)/1000000 AS total FROM notebook;</pre>	

Query <i>5purchase</i>	4 marks
Filtered correctly for manufacturer	1 mark
Filtered correctly for the name of the operating system	1 mark
Used the correct tables, the connection between the tables and the above criteria is correct	1 mark
Ordered by price in ascending order and displays the first one	1 mark
For example: <pre>SELECT TOP 1 manufacturer, type FROM notebook, opsystem WHERE notebook.opsystemid=opsystem.id AND opsystem.osname like "Windows 7*" AND (manufacturer="Asus" OR manufacturer="Dell") ORDER BY price;</pre>	
Query <i>6null</i>	2 marks
The query sets the pieces to null	1 mark
Filtered correctly for display and memory and connects these correctly	1 mark
For example: <pre>UPDATE notebook SET pieces=0 WHERE display>14 AND memory>2048;</pre>	
Query <i>7intel</i>	1 mark
Filtered correctly for the manufacturer of the processor and the connection between the tables used is correct.	
For example: <pre>SELECT notebook.manufacturer, notebook.type, memory, processor.type, price FROM notebook, processor WHERE notebook.processorid=processor.id AND processor.manufacturer="Intel"</pre>	
Report <i>7intel</i>	3 marks
Created a report with name <i>7intel</i> based on query <i>7intel</i> or a temporary table	1 mark
Grouped the notebooks according to manufacturer, within that into descending order based on price	1 mark
The report is on a page with landscape orientation, the column headings start with capital letters	1 mark
Total:	20 marks

Sources:**1. Szigetvár**

<http://www.mult-kor.hu/attachments/16746/szigetvar2.jpg>

http://upload.wikimedia.org/wikipedia/commons/1/13/Mikl%C3%B3s_Zr%C3%A9nyi_poet.jpg

The text was created based on the following pages:

http://hu.wikipedia.org/wiki/T%C3%B6r%C3%B6k_h%C3%A1bor%C3%BAk_Magyarorsz%C3%A1gon

<http://hu.wikipedia.org/wiki/V%C3%A9gv%C3%A1r>

<http://www.vjrkf.hu/carus/honisme/Ho990535.htm>

http://hu.wikipedia.org/wiki/Zr%C3%A9nyi_Mikl%C3%B3s

http://hu.wikipedia.org/wiki/Zr%C3%A9nyi_Mikl%C3%B3s_%28k%C3%B6lt%C5%91%29

4. Notebook

The data of the notebooks are from page <http://www.notebook.hu/>.

1. Szigetvár

Creating document <i>szigetvar</i>	3 marks	
Setting the general properties of the document	3 marks	
Creating the header	3 marks	
Creating the title	4 marks	
Formatting the text body	4 marks	
Formatting the subtitles	5 marks	
The title and the subtitles are in bold	1 mark	
Inserting the pictures	5 marks	
Formatting the table	6 marks	
Creating the footnote	2 marks	
Formatting the poem	2 marks	
Listing the works	2 marks	
Total:	40 marks	

2. Bunsen burner

The background colour of each slide is light yellow, colour with RGB code (255, 255, 200) and the text colour is dark blue, colour with RGB code (0, 32, 96).	2 marks	
The slide number is in the footer	1 mark	
Each text of the presentation is of Arial (Nimbus Sans) font type	1 mark	
Settings of the first slide	9 marks	
Settings of the group	3 marks	
Contents and settings of the second slide	7 marks	
Settings of the third slide	1 mark	
Settings of the fourth slide	3 marks	
Animation settings of the slide show	3 marks	
Total:	30 marks	

3. Combino

Importing the data, saving as <i>combino</i> in the correct format	1 mark	
Numbering of the eight doors	2 marks	
Determined the number of passengers getting on and off the tram	3 marks	
Created the heading in range <i>L1:O2</i>	1 mark	
Range <i>L3:L20</i> contains the names of the stops	1 mark	
The analysis of the results of the passenger counting	8 marks	
The contents of cells <i>L22:L25</i> are correct	1 mark	
Calculations in cells <i>M22:N25</i>	6 marks	
The font colour of cells that contain calculated values is blue	1 mark	
Formatting the cells of the headings	3 marks	
The column chart	3 marks	
Total:	30 marks	

4. Notebook

Creating the database	3 marks	
Each query and report contains exactly the desired fields and expressions	1 mark	
Query <i>2thereis</i>	2 marks	
Query <i>3manufacturer</i>	2 marks	
Query <i>4total</i>	2 marks	
Query <i>5purchase</i>	4 marks	
Query <i>6null</i>	2 marks	
Query <i>7intel</i>	1 mark	
Report <i>7intel</i>	3 marks	
Total:	20 marks	