

**ÉRETTSÉGI VIZSGA • 2009. október 26.**

**INFORMATIKA  
ANGOL NYELVEN**

**KÖZÉPSZINTŰ GYAKORLATI  
ÉRETTSÉGI VIZSGA**

**JAVÍTÁSI-ÉRTÉKELÉSI  
ÚTMUTATÓ**

**OKTATÁSI ÉS KULTURÁLIS  
MINISZTERIUM**

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## Introduction

The exercises are marked in accordance with the guide for evaluation given in the key and guide for evaluation. In the correction scheme 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 cannot be awarded.

To ensure unified evaluation, please do not divert from the marking in the guide for evaluation. The marks cannot be broken down further than indicated in the guide for evaluation. 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 for evaluation. 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. Columbus

Saving the file as <i>kolumbusz</i> in the default format of the word processing program	1 mark
There are no spaces at the beginning of the paragraphs and there are no empty paragraphs	3 marks
Deleted the spaces from the beginning of at least 3 paragraphs	1 mark
There are no paragraphs starting with a space	1 mark
There are no empty paragraphs in the document	1 mark
Page properties	3 marks
The left and right margins are both 1 cm	1 mark
The top and bottom margins are both 1.5 cm	1 mark
The page size is A5, the orientation is portrait	1 mark
Keeping the corresponding text units together	2 marks
There are non-breaking spaces between the words of the unit „ <i>sea mile</i> ” (in at least 4 places)	1 mark
“Keep with next” property was set for the paragraphs containing the dates (for at least 4 dates)	1 mark
The font type of the text is Times New Roman or Nimbus Roman (if not specified else) and the font size is 10 points	1 mark
The formatting of the title is correct	2 marks
The font size of the title is 36 points and the font type is similar to handwriting	1 mark
There is a spacing of 12 to 24 points (0.42 to 0.85 cm) before it and 24 to 36 points (0.85 to 1.27 cm) after it	1 mark
The formatting of the dates in the diary is correct	5 marks
Font type is similar to handwriting (correct for 1 date)	1 mark
Aligned right at 3.5 cm (correct for 1 date)	1 mark
Both settings are correct for at least 3 dates	1 mark
Both settings are correct for each (6) date	2 marks
The formatting of the text of the daily notes is correct	6 marks
The left indent of the paragraphs is 4 cm (correct for each paragraph belonging to 1 date)	1 mark
The left indent of the paragraphs is 4 cm everywhere where it is required	2 marks
The indent of the first line of the paragraphs is an additional 0.5 cm (correct for each paragraph belonging to 1 date, regardless of the left indent)	1 mark
The indent of the first line of the paragraphs is an additional 0.5 cm everywhere where it is required	2 marks
The paragraphs are justified	2 marks
The paragraphs are justified (correct for 2 paragraphs)	1 mark
The paragraphs are justified (correct for each paragraph and the footnotes as well)	1 mark
The position and the formatting of the picture are correct	3 marks
The picture is scaled down proportionally	1 mark
Its height is 4 cm (a deviation of 0.1 cm is acceptable)	1 mark
The picture does not alter the text layout or cover the text	1 mark

The font style for the text parts in brackets is italics	2 marks
Italics style is correct for 1 text part	1 mark
Italics style is correct for each (3) text part	1 mark
Creating the footnotes	5 marks
At least one text in square brackets in the source file is in the footnote and does not appear in its original place	1 mark
Each (3) text in square brackets in the source file is in the footnote and does not appear in its original place	1 mark
The corresponding footnote is assigned to the word before the opening bracket in at least 1 place	1 mark
The corresponding footnote is assigned to the word before the opening bracket in all 3 places	1 mark
There are no square brackets in the document	1 mark
Used hyphenation in the document	1 mark
Page numbering in the document is correct	4 marks
There are page numbers on the left side of the pages	1 mark
The starting page number is 11	2 marks
The mark can be awarded only if the page numbering according to the example was achieved through the setting of the page numbering.	
The font size of the page numbers is 10 points and its font type is the same as the one used in the title	1 mark
<b>Total:</b>	<b>40 marks</b>

**Source:** Columbus' logbook

Translated and edited by Szerb, Antal. Akadémia Kiadó, Budapest, 1991.

## 2. Tangram

A presentation with name <i>tangram</i> exists and contains 3 slides	1 mark
The mark cannot be awarded if there are not 3 slides or the presentation was saved with an incorrect name.	
The background of each slide is lavender, RGB code (204, 204, 255), the text is navy blue, RGB code (0, 0, 128)	1 mark
Formatting the texts and the titles on the slides	2 marks
Used font type Arial (Nimbus Sans) on each slide and set the font sizes correctly on at least one slide	1 mark
Set the font sizes correctly on each slide	1 mark
Typed in or inserted the texts on the 2 <sup>nd</sup> and 3 <sup>rd</sup> slides	1 mark
In the case of a missing or extra line of text the mark cannot be awarded.	
Inserting picture <i>futo.png</i> on the first slide	2 marks
Inserted the picture and increased its size to twice the original keeping the aspect ratio	1 mark
The mark can be awarded if the rate of magnification is between 199 and 201 percent.	
Copied and reflected the picture and both pictures are in the given place, in the bottom left and right corners	1 mark

Formatted the text inserted on the second slide correctly	1 mark
The text on the slide is a list that has two levels according to the example The mark cannot be awarded if the page-setting of the paragraphs is incorrect or superficial spaces were left at the beginning of the lists.	
Inserted picture <i>tangram.png</i> and positioned it according to the description	1 mark
The size of the picture is 9×9 cm and it is 0 cm vertically and 2 cm horizontally from the centre of the slide The mark can also be awarded if the distance from the top left corner of the slide is 14.7 cm horizontally and 9.53 cm vertically.	
On the third slide the rules are in a numbered list	1 mark
Creating the picture of the bird	3 marks
The shapes required to create the picture are on the slide	1 mark
The shapes fit to each other accurately (there is no gap greater than 0.2 cm or overlapping between them), and the orientation of the shapes is according to the example	1 mark
The picture is on the left side of the slide and does not cover the text	1 mark
Inserted pictures <i>macska.png</i> and <i>madar.png</i> and aligned them according to the example	1 mark
The feet of the created picture and the “animals” in the inserted pictures are on the same line.	
Animation	1 mark
The two pictures float in in the given way after the text and slower than the default value.	
<b>Total:</b>	<b>15 marks</b>

### 3. Chicken

If in the solution the pictures are not displayed or the links are not usable, then the corresponding marks cannot be awarded.

<i>tyuk.html</i> exists (only an exact file name can be accepted)	1 mark
The background picture of the page is <i>hatter.jpg</i> and the text colour is dark blue (code #003399)	1 mark
The page contains a box of width 700 pixels (for example a table)	1 mark
The background colour of the box (table) is yellowish white (code #EEEECC)	1 mark
The title (“ <b>Chicken</b> ”) is Heading 1, aligned centered and the text of the title appearing in the header of the browser is the same	1 mark
Picture <i>tyuk_kep.gif</i> is on the left side of the box in the same line as the title	1 mark
Picture <i>kakas_kep.gif</i> is on the right side in the same line as the title	1 mark
The text on the page is according to the example and subtitle “ <b>Domestication and origin</b> ” is of style Heading 2	1 mark
The species appear in a list	1 mark
Text “ <b>Naming</b> ” is a link that leads to <i>elnevezes.html</i>	1 mark

File <i>e1nevezes.html</i> exists, the background colour of the page is yellowish white (code #EEEECC) and the text colour is dark blue (code #003399)	1 mark
The title (“ <b>Naming</b> ”) is Heading 1 and the title appearing in the header of the browser is “ <b>Chicken</b> ”	1 mark
The text content on the page is according to the example	1 mark
The explanation of the namings is displayed in a link, the names are bold and the Latin name of chicken is in italics	1 mark
Next to the text, on the right there is picture <i>nagy_kep.gif</i> with a border of 1 point	1 mark
<b>Total:</b>	<b>15 marks</b>

#### 4. Taxi

Importing the data is correct and saving as <i>taxi</i> is correct	1 mark
Inserted the complete content of file <i>vtt.txt</i> starting from column 2 of row 1 on worksheet <b>Wednesday</b> and saved the table as <i>taxi</i> in the default format of the worksheet processor.	
Filling in the identifiers of travels	1 mark
Cell A5 contains text “Identifier” and each cell of range A6:A31 contains the correct identifier.	
Determined the waiting time of the passenger in column <i>Waiting time</i>	1 mark
The mark can be awarded if each cell of range G6:G31 contains a correct formula. For example: In cell G6: =C6-B6	
Determining the taximeter reading	2 marks
The formula created to determine the taximeter reading is correct in at least one cell	1 mark
The formula can be copied in the whole range and is filled for each travel	1 mark
For example: in cell H6: =E6*C\$1+C\$2	
Determining the payable fare	2 marks
Used a correct function to determine the payable fare in each cell	1 mark
The parameters of the function were given correctly	1 mark
For example: in cell I6: =ROUNDDOWN(H6;-2) <i>or</i> =FLOOR(H6;100) <i>or</i> = H6-MOD(H6;100)	

Determining the average speed	3 marks
Calculates with the ratio of distance data and time elapsed in the formula created to determine speed	1 mark
The unit of the created formula (km/h) is correct, that is, divided a quantity expressed in km by a value given in hours	1 mark
The mark can be awarded if the formula contains something else than the time elapsed.	
The created formula is correct in the row of each travel	1 mark
For example: in cell <i>J6</i> : =E6 / (HOUR (D6-C6) +MINUTE (D6-C6) / 60) <i>or</i> =E6 / (D6-C6) / 24	
Determining the total distance and the income	1 mark
For example: in cell <i>F1</i> : =SUM (E6 : E31) <i>and</i> in cell <i>F2</i> : =SUM (I6 : I31)	
Determining “ <b>Total gift</b> ”	2 marks
Determined the number of frequent passengers using a suitable function	1 mark
Calculated the sum of the gifts corresponding to the number of frequent passengers	1 mark
For example: in cell <i>F3</i> : =COUNTA (F6 : F31) * C3	
Creating the chart	4 marks
The chart contains correct data and is of the required chart type (column chart)	1 mark
The category axis contains the times of orderings and the value axis contains the distances travelled	1 mark
The chart was created on a new worksheet, each value of the category axis is readable	1 mark
The columns are green, the columns of travels shorter than 3 km are yellow	1 mark
Setting the number format of cells	4 marks
The cells containing times are displayed in format hour:minute	1 mark
The mark can be awarded if the setting is correct in each cell of at least two columns	
The cells containing distances are displayed with an accuracy of two decimal places and the unit “km” was set	1 mark
The mark can be awarded if the setting is correct in at least half of the cells concerned.	
The cells containing sums of money are rounded to integral values, with thousands separation, “HUF” (or “Ft”) is displayed behind the number.	1 mark
The mark can be awarded if the setting is correct in at least half of the cells concerned.	
The setting of number format is correct in each cell, including the first three rows	1 mark

Formatting the table	6 marks
All three blocks of the table are bordered by double line	1 mark
The heading is bordered with double line and shaded	1 mark
In the respective cells of row 5 the text is wrapped into several lines and text “ <i>Frequent passenger card no.</i> ” is in three lines	1 mark
The columns of the table are of equal width	1 mark
In row 5 the text is aligned centered both horizontally and vertically	1 mark
The cells containing calculated values are in italics, the column of <i>Frequent passenger card no.</i> is aligned centered	1 mark
Formatting worksheet <i>Wednesday</i>	3 marks
The data are on a page with landscape orientation	1 mark
The header contains “Urban Taxi Company” in bold letters	1 mark
The footer contains the date in the middle	1 mark
<b>Total:</b>	<b>30 marks</b>

## 5. Nobel Prize in Literature

Creating the database with name <i>nobel dij</i> and importing the data into the tables are correct	1 mark
The mark cannot be awarded in the case of a different database name or if one table name is incorrect or importing is incorrect.	
Each field of the tables is of the correct type and the suitable fields are chosen as keys in both tables	1 mark
The mark cannot be awarded if additional fields were added to table <i>fold</i> or the keys were not set.	
Query <i>A</i>	2 marks
Field <i>szemely</i> is displayed and ordering according to <i>ev</i>	1 mark
Filtering criterion is correct	1 mark
For example: <pre>SELECT szemely, ev FROM iro WHERE ev BETWEEN 1960 AND 1970 ORDER BY ev;</pre>	
Query <i>B</i>	2 marks
Displaying field <i>szemely</i> and connector between the tables	1 mark
Filtering criterion is correct	1 mark
For example: <pre>SELECT szemely FROM fold, iro WHERE szulhely=azon AND orszag='France';</pre>	
Query <i>C</i>	2 marks
Displaying field <i>ev</i> and number	1 mark
Grouping and filtering within the group are correct	1 mark
For example: <pre>SELECT ev, Count(*) FROM iro GROUP BY ev HAVING Count(*)&gt;1;</pre>	

<b>Query D</b>	<b>3 marks</b>
Displaying <i>kontinens</i> and the number	1 mark
The connector and the grouping are correct	1 mark
Ordering is correct	1 mark
For example:	
<pre>SELECT kontinens, Count(*) AS [Number of prizes] FROM fold, iro WHERE azon=szulhely GROUP BY kontinens ORDER BY Count(*) DESC;</pre>	

<b>Query E</b>	<b>3 marks</b>
Determining the continent of poet Pablo Neruda	1 mark
Displaying field <i>szemely</i> and connector are correct	1 mark
Filtering for field <i>kontinens</i> is correct	1 mark
For example:	
<pre>SELECT szemely FROM fold, iro WHERE szulhely=azon AND       kontinens IN (SELECT kontinens                     FROM fold, iro                     WHERE szulhely=azon AND                           szemely='Pablo Neruda');</pre>	

or

Query **E\_seged**:

```
SELECT kontinens
FROM fold, iro
WHERE szulhely=azon AND
      szemely='Pablo Neruda';
```

and

```
SELECT szemely
FROM fold, iro, E_seged
WHERE szulhely=azon AND
      fold.kontinens IN (E_seged.kontinens);
```

<b>Query F</b>	<b>3 marks</b>
The number of the Nobel Prize winners of Denmark is correct	1 mark
Displaying field <i>orszag</i> and the number	1 mark
Grouping and filtering within group for number	1 mark
For example:	
<pre>SELECT orszag, Count(*) FROM fold, iro WHERE azon=szulhely GROUP BY orszag HAVING Count(*) &gt; (SELECT Count(*)                    FROM fold, iro                    WHERE azon=szulhely AND                          orszag='Denmark');</pre>	
or	
Query <b>F_seged</b> :	
<pre>SELECT Count(*) AS darab FROM fold, iro WHERE azon=szulhely AND orszag='Denmark';</pre>	
and	
<pre>SELECT fold.orszag, Count(*) FROM fold, iro, F_seged WHERE fold.azon=szulhely GROUP BY fold.orszag, F_seged.darab HAVING Count(*) &gt; F_seged.darab;</pre>	

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<b>Query and report G</b>	<b>3 marks</b>
The query displays fields <i>szemely</i> , <i>ev</i> , <i>orszag</i> and <i>kontinens</i> from the connected tables	1 mark
The report displays only fields <i>szemely</i> , <i>ev</i> , <i>orszag</i> and <i>kontinens</i>	1 mark
Grouped according to fields <i>kontinens</i> and <i>orszag</i> in the report and the fields and group levels are correct	1 mark
Example for the query: <pre>SELECT szemely, ev, orszag, kontinens FROM fold, iro WHERE szulhely=azon;</pre>	
<b>Total:</b>	<b>20 marks</b>

## 1. Columbus

Saving the file as <i>kolumbusz</i> in the default format of the word processing program	1 mark	
There are no spaces at the beginning of the paragraphs and there are no empty paragraphs	3 marks	
Page properties	3 marks	
Keeping the corresponding text units together	2 marks	
The font type of the text is Times New Roman or Nimbus Roman (if not specified else) and the font size is 10 points	1 mark	
The formatting of the title is correct	2 marks	
The formatting of the dates in the diary is correct	5 marks	
The formatting of the text of the daily notes is correct	6 marks	
The paragraphs are justified	2 marks	
The position and the formatting of the picture are correct	3 marks	
The font style for the text parts in brackets is italics	2 marks	
Creating the footnotes	5 marks	
Used hyphenation in the document	1 mark	
Page numbering in the document is correct	4 marks	
<b>Total:</b>	<b>40 marks</b>	

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Inserting picture <i>futo.png</i> on the first slide	2 marks	
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On the third slide the rules are in a numbered list	1 mark	
Creating the picture of the bird	3 marks	
Inserted pictures <i>macska.png</i> and <i>madar.png</i> and aligned them according to the example	1 mark	

Animation	1 mark	
<b>Total:</b>	<b>15 marks</b>	

### 3. Chicken

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The text on the page is according to the example and subtitle “ <b>Domestication and origin</b> ” is of style Heading 2	1 mark	
The species appear in a list	1 mark	
Text “ <b>Naming</b> ” is a link that leads to <i>elnevezes.html</i>	1 mark	
File <i>elnevezes.html</i> exists, the background colour of the page is yellowish white (code #EEEECC) and the text colour is dark blue (code #003399)	1 mark	
The title (“ <b>Naming</b> ”) is Heading 1 and the title appearing in the header of the browser is “ <b>Chicken</b> ”	1 mark	
The text content on the page is according to the example	1 mark	
The explanation of the namings is displayed in a link, the names are bold and the Latin name of chicken is in italics	1 mark	
Next to the text, on the right there is picture <i>nagy_kep.gif</i> with a border of 1 point	1 mark	
<b>Total:</b>	<b>15 marks</b>	

#### 4. Taxi

Importing the data is correct and saving as <i>taxi</i> is correct	1 mark	
Filling in the identifiers of travels	1 mark	
Determined the waiting time of the passenger in column <i>Waiting time</i>	1 mark	
Determining the taximeter reading	2 marks	
Determining the payable fare	2 marks	
Determining the average speed	3 marks	
Determining the total distance and the income	1 mark	
Determining “ <i>Total gift</i> ”	2 marks	
Creating the chart	4 marks	
Setting the number format of cells	4 marks	
Formatting the table	6 marks	
Formatting worksheet <i>Wednesday</i>	3 marks	
<b>Total:</b>	<b>30 marks</b>	

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Creating the database with name <i>nobel dij</i> and importing the data into the tables are correct	1 mark	
Each field of the tables is of the correct type and the suitable fields are chosen as keys in both tables	1 mark	
Query <i>A</i>	2 marks	
Query <i>B</i>	2 marks	
Query <i>C</i>	2 marks	
Query <i>D</i>	3 marks	
Query <i>E</i>	3 marks	
Query <i>F</i>	3 marks	
Query and report <i>G</i>	3 marks	
<b>Total:</b>	<b>20 marks</b>	