

# Hungarian Geographical Contest

## Written Test

Pécs, 13/12/2014

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## Question and Answer Booklet

*Instructions:*

1. The test consists of 8 sections.
2. A maximum of 100 marks can be earned.
3. Only the required number of answers (reasons, examples etc.) will be accepted - in the order as they are written. For instance, if the question asks for two reasons and you give more than two, only the first two reasons will be marked.
4. All questions should be answered in the spaces provided in this booklet.
5. Fill in your password on the front page of this booklet and on the top of the pages as well.
6. You can find all the sources (maps, figures) referred to in the source booklet.
7. You have 180 minutes available to answer all questions.
8. You may use a calculator during the test.
9. Good Luck!

## Section 1 - Quiz

*Quiz – Choose the correct answer. Mark your choice with a cross in the proper box.*

1. *Which water current is responsible for the spread of Fukushima's nuclear waste across the Pacific Ocean?*

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Oyashio  | <input type="checkbox"/> Tsushima |
| <input type="checkbox"/> Kuroshio | <input type="checkbox"/> Irminger |

2. *Which EU member country is not member of the NATO?*

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| <input type="checkbox"/> Sweden   | <input type="checkbox"/> Luxembourg |
| <input type="checkbox"/> Bulgaria | <input type="checkbox"/> Latvia     |

3. *For a body orbiting the Sun which point is of the greatest distance?*

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| <input type="checkbox"/> Perigee | <input type="checkbox"/> Aphelion   |
| <input type="checkbox"/> Apogee  | <input type="checkbox"/> Perihelion |

4. *Which is the southernmost point of Africa?*

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> Cape of Good Hope | <input type="checkbox"/> Cape Agulhas |
| <input type="checkbox"/> Cape Town         | <input type="checkbox"/> Cape Point   |

5. *Which is the former name of Kaliningrad?*

- |                                     |  |
|-------------------------------------|--|
| <input type="checkbox"/> Danzig     | <input type="checkbox"/> Gdingen       |
| <input type="checkbox"/> Königsberg | <input type="checkbox"/> Kolmannskuppe |

6. *What is the approximate concentration of CO<sub>2</sub> in the atmosphere (in ppm: parts per million)?*

- |                                  |                                  |
|----------------------------------|----------------------------------|
| <input type="checkbox"/> 450 ppm | <input type="checkbox"/> 400 ppm |
| <input type="checkbox"/> 423 ppm | <input type="checkbox"/> 387 ppm |

7. *Which river touches more country than any other?*

- |                               |                                 |
|-------------------------------|---------------------------------|
| <input type="checkbox"/> Elbe | <input type="checkbox"/> Danube |
| <input type="checkbox"/> Nile | <input type="checkbox"/> Rhône  |

8. *How many million years ago did the extinction of the dinosaurs happen?*

- |                              |                             |
|------------------------------|-----------------------------|
| <input type="checkbox"/> 127 | <input type="checkbox"/> 84 |
| <input type="checkbox"/> 58  | <input type="checkbox"/> 65 |

9. *Which country is the home of Lenovo?*

- |                                  |                                |
|----------------------------------|--------------------------------|
| <input type="checkbox"/> Germany | <input type="checkbox"/> Italy |
| <input type="checkbox"/> USA     | <input type="checkbox"/> China |

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10. *In connection with which global system could you associate the followings: Easterlies, Westerlies, Ttrades?*

- |                                |                                    |
|--------------------------------|------------------------------------|
| <input type="checkbox"/> wind  | <input type="checkbox"/> trade     |
| <input type="checkbox"/> water | <input type="checkbox"/> migration |

11. *What is the difference between Great Britain (GB) and the United Kingdom (UK)?*

- Northern Ireland is a part of the UK, but is not part of GB
- Scotland is part of GB, but is not part of the UK
- Ireland is part of GB, but is not part of the UK
- Ireland is part of the UK, but is not part of GB

12. *Which desert is located in Asia?*

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| <input type="checkbox"/> Thar    | <input type="checkbox"/> Mojave   |
| <input type="checkbox"/> Atacama | <input type="checkbox"/> Kalahari |

13. *Which is the correct sequence of the transportation modes in order of their invention?*

- Railway-Sailing-Passenger car-Aviation
- Sailing-Railway-Passenger car-Aviation
- Passenger car-Railway-Sailing-Aviation
- Sailing-Railway-Aviation-Passenger car

14. *How many landlocked countries can be found in Europe?*

- |                            |                             |
|----------------------------|-----------------------------|
| <input type="checkbox"/> 2 | <input type="checkbox"/> 15 |
| <input type="checkbox"/> 5 | <input type="checkbox"/> 42 |

15. *How long is the Channel Tunnel connecting England and France?*

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> 50.45 km | <input type="checkbox"/> 76.23 km |
| <input type="checkbox"/> 27.65 km | <input type="checkbox"/> 110.6 km |

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## Section 2 – Greenland

1. *Greenland is an autonomous country within the kingdom of which country?*

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2. *How many percent of the island's surface is covered by ice?*

- 40 %
- 60 %
- 80 %
- 100 %

3. *Where is Earth's largest ice cover located?*

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4. *Ice melting rises global sea level. Which countries are the most endangered?*

a) *Circle the three most endangered countries in the table below!*

Country
Cyprus
Kiribati
Guam
Iceland
Tuvalu
Malta
Nauru
Cape Verde

b) *What do these countries have in common?*

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c) What kind of risks may appear due to the global sea level rising? Name two in each category!

<b>Environmental</b>	
<b>Social</b>	
<b>Economic</b>	

5. Facts about Greenland. True or False? Mark you answers in the boxes!

	<b>True</b>	<b>False</b>
The biggest island on Earth which is not a continent.		
Member of the European Union.		
Greenland's largest economic factor is fishing.		
The country's name is originated from Columbus.		
The population of Greenland is lower than the population of an average regional centre in Hungary.		
The territory is used to be a Finnish colony.		
There are no roads between towns.		
The most part of the island lies north of the Arctic Circle.		

6. Study source 1a in the source booklet! What kind of changes might happen if the melting continues? Write three positive and negative effects!

Positive :

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*Negative:*

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*7. Study source 1b in the source booklet! Explain how Greenlanders everyday life is influenced by global warming. Write your own arguments in 2-3 sentences!*

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## Section 3 – Physical geography

1. Study source 2a in the source booklet! Name the soil types in Figure 1. (either genetic, FAO, WRB or USDA names are accepted)

a., \_\_\_\_\_

b., \_\_\_\_\_

c., \_\_\_\_\_

2. Study source 2b in the source booklet! Name the vegetation types in Figure 2.

a., \_\_\_\_\_

b., \_\_\_\_\_

c., \_\_\_\_\_

3. Study source 2c in the source booklet! Name the animals on Figure 3.

a., \_\_\_\_\_

b., \_\_\_\_\_

c., \_\_\_\_\_

4. Study source 2d in the source booklet! Name the climate types based on the weather data in the table (you can also get a hint from Figures 1 to 3).

a., \_\_\_\_\_

b., \_\_\_\_\_

c., \_\_\_\_\_

5. Match the corresponding letters between the figures in sources 2a, b and c and the table in source 2d!

Source 2a	Source 2b	Source 2c	Source 2d

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*6. Draw three climate diagrams based on the data provided in source 2d. Make double y-axes by having mean annual temperature on the left y-axis and monthly precipitation totals on the right y-axis. Make temperature data with a solid line and monthly precipitation totals with columns. Label axes and include units!*

## Section 4 - Scotland

On 18th September 2014, a referendum took place in Scotland about whether Scotland should be an independent country or not. Although the majority of voters decided that Scotland will remain a part of the United Kingdom, several analyses and scenarios has been made about the future independent state.

*Please, answer the following questions about Scotland!*

*1. Study source 3a in the source booklet! The feature on the picture is called „Neptune’s staircase”, and it is part of a famous inland waterway designed by Thomas Telford and built between 1803 and 1822.*

*a., What is the name of this waterway? (1)*

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*b., Name two economic goals behind the construction of this waterway! (2)*

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*c., Mark the approximate location of this waterway on the map given! (1)*



*2., Study source 3b in the source booklet! This map shows the main natural zones and the distribution of settlements in Scotland.*

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*a., Name the major agglomerations with their principal cities on the map (5)*

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*b., Which are the main factors of the high settlement and population density in the Scottish Lowlands region? (2)*

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*c., What are the main characteristics of the Scottish agriculture based on the known conditions?*

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*4., Study source 3c in the source booklet! The map shows the main transport connections and traffic flows in the urban area of the traditional Scottish capital, Edinburgh.*

*a., What are the main goals of the urban traffic planning in Edinburgh? Which problems need to be tackled? (5)*

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*b., Urban planners seek to find new use of the abandoned docks. Name some possible functions of this kind of brownfield development! (4)*

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*5., Although the referendum hasn't resulted the independence of Scotland, due to a particular political and social structure of the United Kingdom, Scotland is a region with high level of autonomy. In several cases, Scotland has his own structures or systems separated from the English one. The today's Scotland has...(8)*

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Statement	True	Not true
Its own Parliament seated in Edinburgh		
Own currency		
Own banknotes		
Own football league and national team		
Own Olympic team		
Own Roman-law based legal system partly differing from the English legal system		
Own representatives in the European Commission		
Own regiment (Royal Scottish Regiment) with national symbols integrated into the British Armed Forces		

6., If this year's referendum had resulted in favour of the pro-independency parties, Scotland was to become independent in 2016.

*What would be the possible consequences for the country's and Europe's human geography? In your answer please highlight the possible effects on Scotland's economy (national income, foreign trade), political geography (according to international relations) and other human geographical aspects (e.g. migration) – (12) Write your arguments in 5-6 sentences (!)?*

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## Section 5 – Geography of Crime

*1., Study source 4a in the source booklet! Describe what you see on the map!*

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*2., Based on the map in the source booklet and your own knowledge name three factors that would concentrate thefts in a certain area!*

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*3., Describe three negative social and economic consequences and the further impacts of the spatial concentration of crime events!*

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*4., Give three examples of how the structure and characteristics of built environment can be changed, in order to provide less opportunity to commit crime (based on the given map)!*

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## Section 6 - Foreign and foreign-born citizens of the EU

Study source 5 in the source booklet! You can find the foreign and foreign-born citizens in absolute numbers and as a percentage of the total foreign/foreign-born population in the largest EU members (France and Greece have no data).

*1., Name a country which has become EU member recently and its citizens can be numerously found in two different countries (among foreigners)?*

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*2., Where can you find the biggest absolute number of non-EU member citizens among the foreigners?*

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*3., What is the reason why you can find big differences between the foreign citizens and foreign-born citizens in the Netherlands?*

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## Section 7 - Ski resorts

1. Study source 6a and 6b in the source booklet! Pair the maps with the surfaces' cross-sections! Note: contour lines interval is 10 meters.

Map	Cross section
1.	
2.	
3.	
4.	
5.	

2. Categorize the proposed cross-country ski trails by difficulty with the following criteria taken into consideration! Mark as the following: 1 - easy, 2 - medium, 3 - hard. What is the average difficulty of the trails?

NB! One of the proposed cross-country ski trails doesn't meet the requirements.

	Maximum slope grade on uphill	Average slope grade on uphill	Total difference in elevation	Elevation gain on a single vertical climb	
	Easy: 0-15% Medium: 15-25% Hard: 25-40% Not acceptable: 40% <	Easy: 0-10% Medium: 10-18% Hard: 18-25% Not acceptable: 25% <	Easy: 0-90 m Medium: 90-120 m Hard: 120-150 m Not acceptable: 150 m <	Easy: 0-90 m Medium: 90-110 m Hard: 110-130m Not acceptable: 130 m <	Average difficulty of the cross-country ski trail
A					
B					
C					
D					
E					

3. Study source 6c in the source booklet! Evaluate the proposed cross-country ski trails according to the climatic conditions (use the maps of the resource booklet) and also take into account the slope exposure! To what extent are the analysed locations suitable for skiing? Evaluate them as the following: excellent – good – satisfactory.





