BALKAN INTERNATIONAL GEOGRAPHY OLYMPIAD
June 24 - June 29, 2018
IAȘI, ROMANIA

## WRITTEN TEST (YJ)

INSTRUCTIONS FOR THE STUDENTS:

1. This written test includes the source materials, the questions and the space for answers.

2. Write your code number in the designated space on each of the 10 sheets of paper.

3. The test consists of **five assignments**.

4. The maximum total mark for the written test is **40** (8 marks for each assignment).

5. You are asked to give only the required number of answers (examples, reasons, etc). For instance, if the question asks for three examples and you give more than three, only the first three will be considered and marked.

6. You are allowed to use bilingual dictionaries during the test.

7. You have an extra blank sheet of paper at the end of the materials at your own disposal. This is not considered for the final marking of your paper.

8. The duration of the test is **180 minutes**.

GOOD LUCK!

Assignment 1

Source 1a illustrates some of the most powerful cities in the world, according to Global Power City Index in 2017 and in *Source 1b* the first ten most powerful cities are shown. The Index analyses the strengths and weaknesses of 42 global cities based on six criteria: economy, research and development, cultural interaction, livability, environment and accessibility (*Source 1b*).
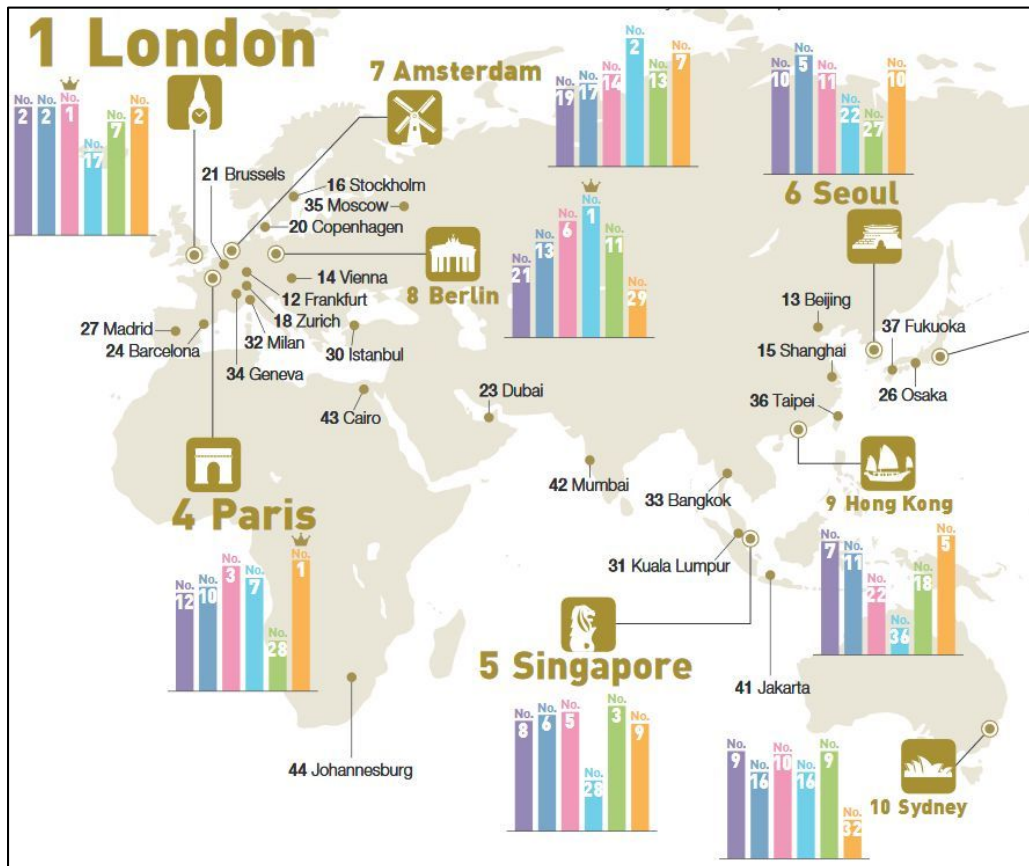
Source 1a
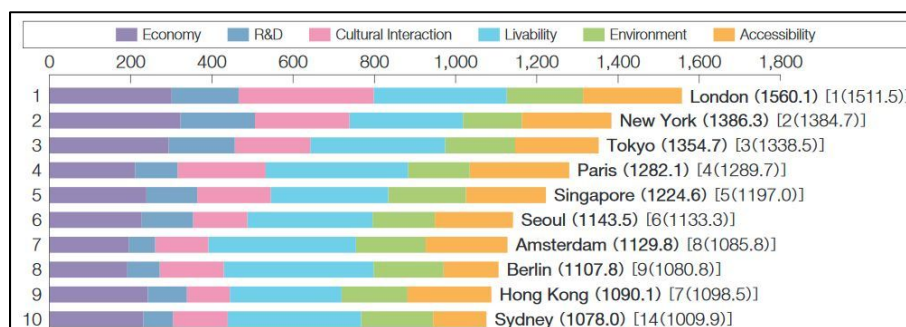
Source 1b

Study *Sources 1a* and *1b* in the previous page and answer the following questions.

2 m **1a**. Explain the reason why Paris was surpassed by Tokyo, knowing that France capital city's cultural interaction rating fell in 2016.

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2 m **1b**. Explain why London recorded a slight drop in 2016 in overall rating, despite keeping the first place.

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2 m **1c**. In 2017, Zürich was ranked as the second best city in terms of Environment. Explain this ranking referring to Physical Geography factors.

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2 m **1d**. Explain the importance of the Research & Development factor as a criterion in the computation of the Global Power City Index.

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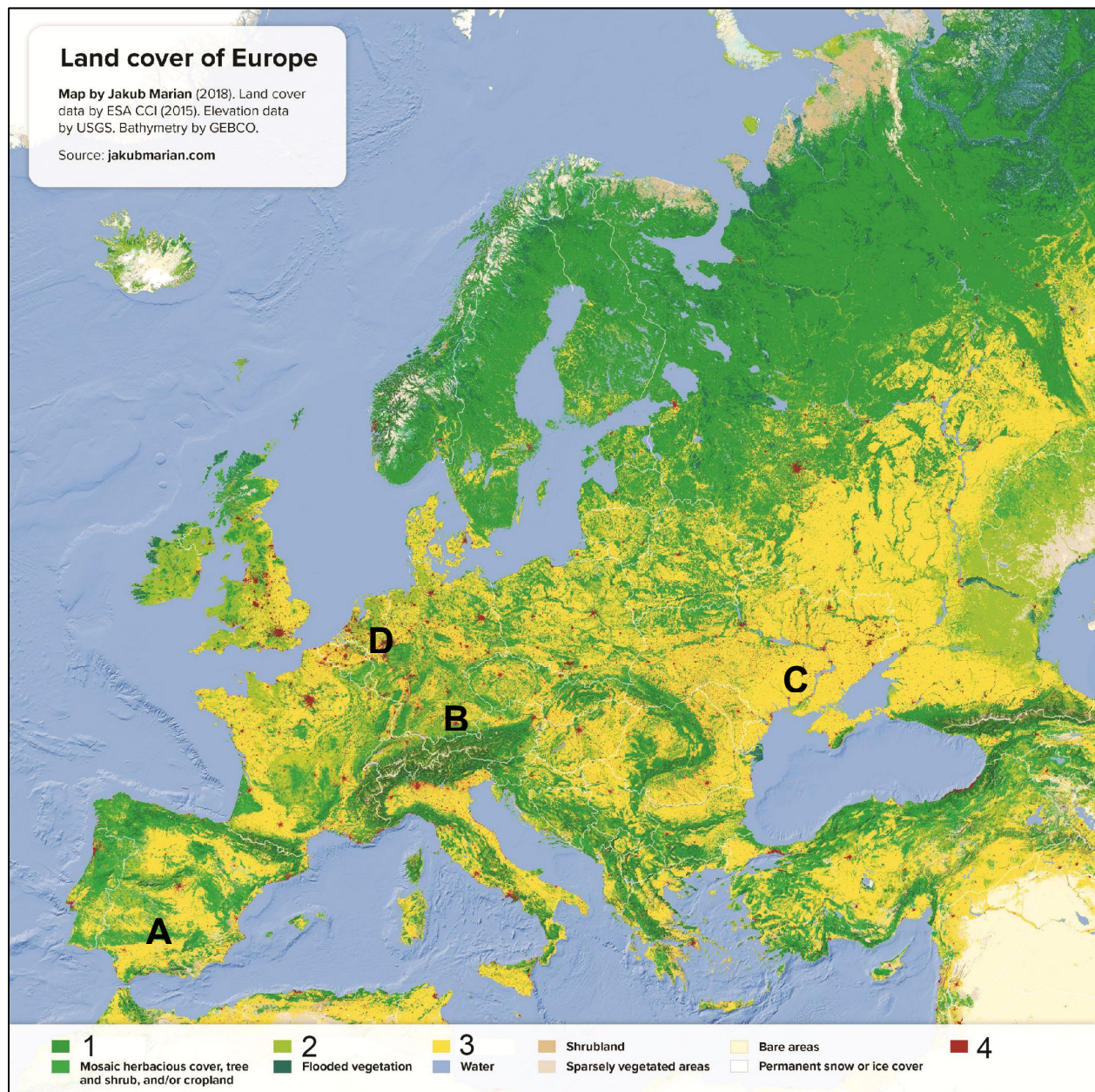
Assignment 2

Source 2 illustrates the land cover of Europe in 2015. Study this source and answer the following questions.

Source 2

2 m

2a. Four types of land uses (*cropland*, *urban areas*, *tree cover* and *grassland*) are missing in the legend of the map in *Source 2*.They are marked with numbers from **1** to **4**. Identify them.

1: ....   3: ....
2: ....   4: ....

2 m

2b. Match the locations of the letters (**A** – **D**) annotated on *Source 2* with the following land use related images.

1: ....   3: ....
2: ....   4: ....

2 m

2c. Explain the difference between the forest extension in the Scandinavian Peninsula and the forest cover in the Apennine Peninsula.
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2 m

2d. Identify 4 sustainable strategies meant to conserve forests in Europe.
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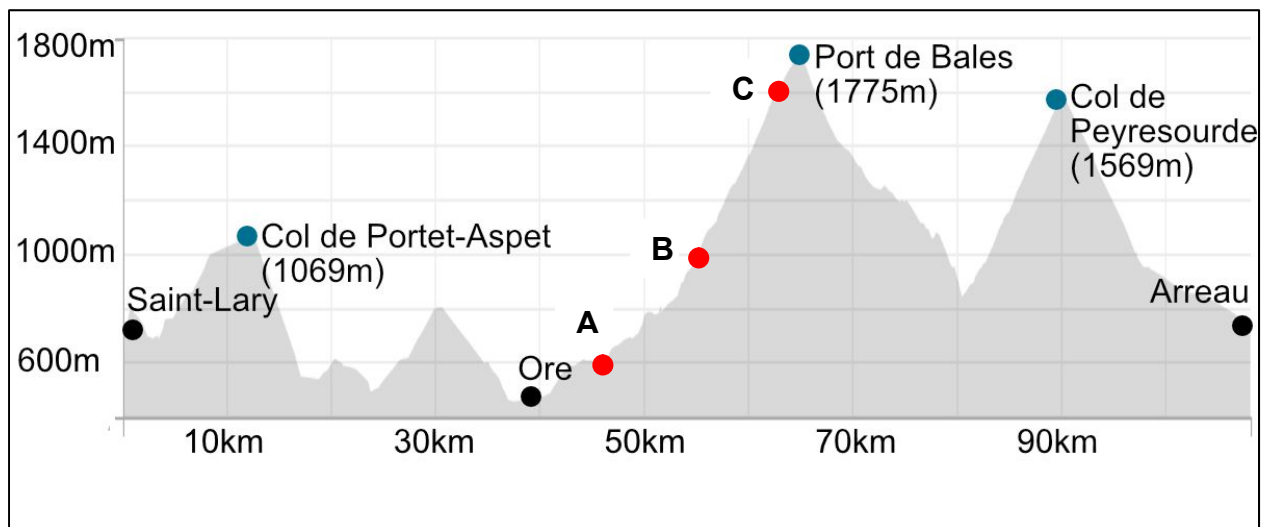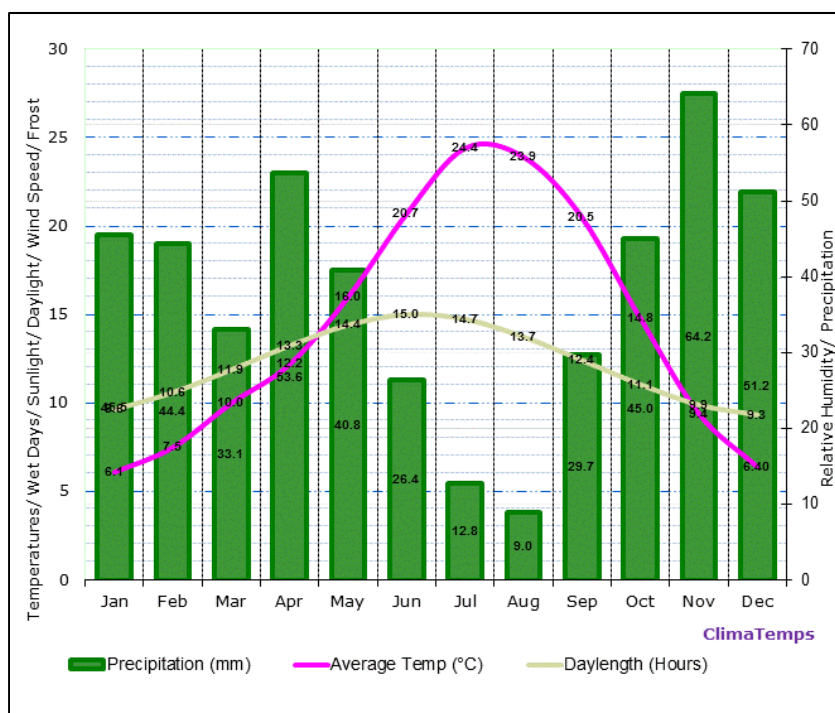
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Assignment 3

Source 3a illustrates an elevation profile for a mountain area in Europe, while *Source 3b* is a climate graph specific to the point marked with letter **A** on the elevation profile. Answer the following questions by the use of *Source 3a* and *Source 3b*.

Source 3a

Source 3b

2 m   **3a**. Complete the following table with the missing information concerning the elevation and temperature of the three points:

Point	Elevation (m)	Temperature on March 21st (°C)
A		
B		12
C		

1 m   **3b**. The type of climate represented by *Source 3b* is:

a) temperate oceanic climate
b) subalpine climate
c) temperate continental climate
d) Mediterranean climate

2 m   **3c**. Using *Source 3b*, explain the evolution of the average monthly temperatures through the year.
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1 m   **3d**. Calculate the annual temperature range for the station represented in *Source 3b*.
....

2 m   **3e**. Using *Source 3b*, explain the difference in the amount of rainfall in summer time and winter time.
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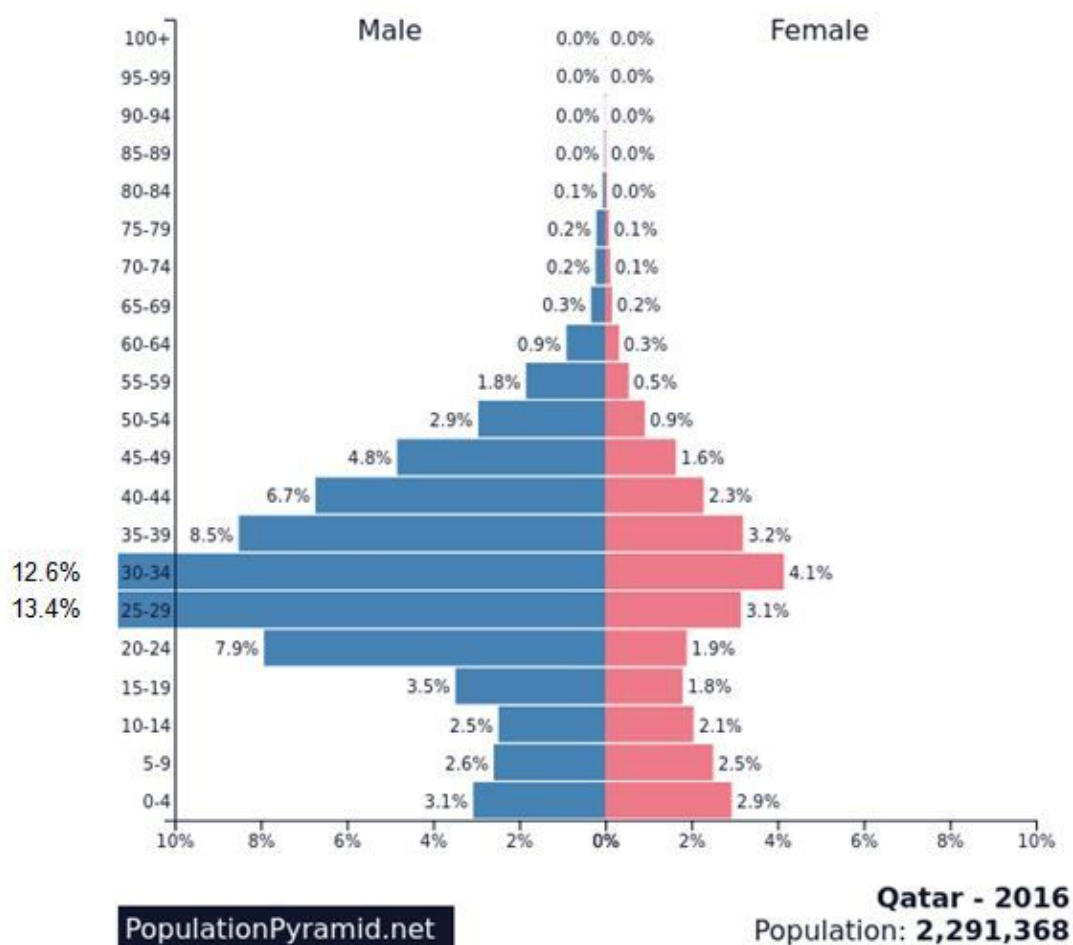
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Assignment 4

Source 4 represents the population pyramid specific to Qatar (2016). Study this source and answer the following questions.

Source 4

2 m | **4a**. Calculate the percentage of the young (0 – 19 years old) and old population (65 – 100+ years old) in Qatar.

Young population (%): .... …   Old population (%): ....

1 m | **4b**. Calculate the percentage of male adults.

....

2 m **4c**. Explain the high proportion of male adults in Qatar.

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2 m **4d**. Identify 2 consequences of the discrepancies regarding the percentage of the two genders of the adult population in Qatar.

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1 m **4e**. In most of the cases, the female population numerically dominates the male one at old ages. In Qatar, the situation is reversed. Explain why.
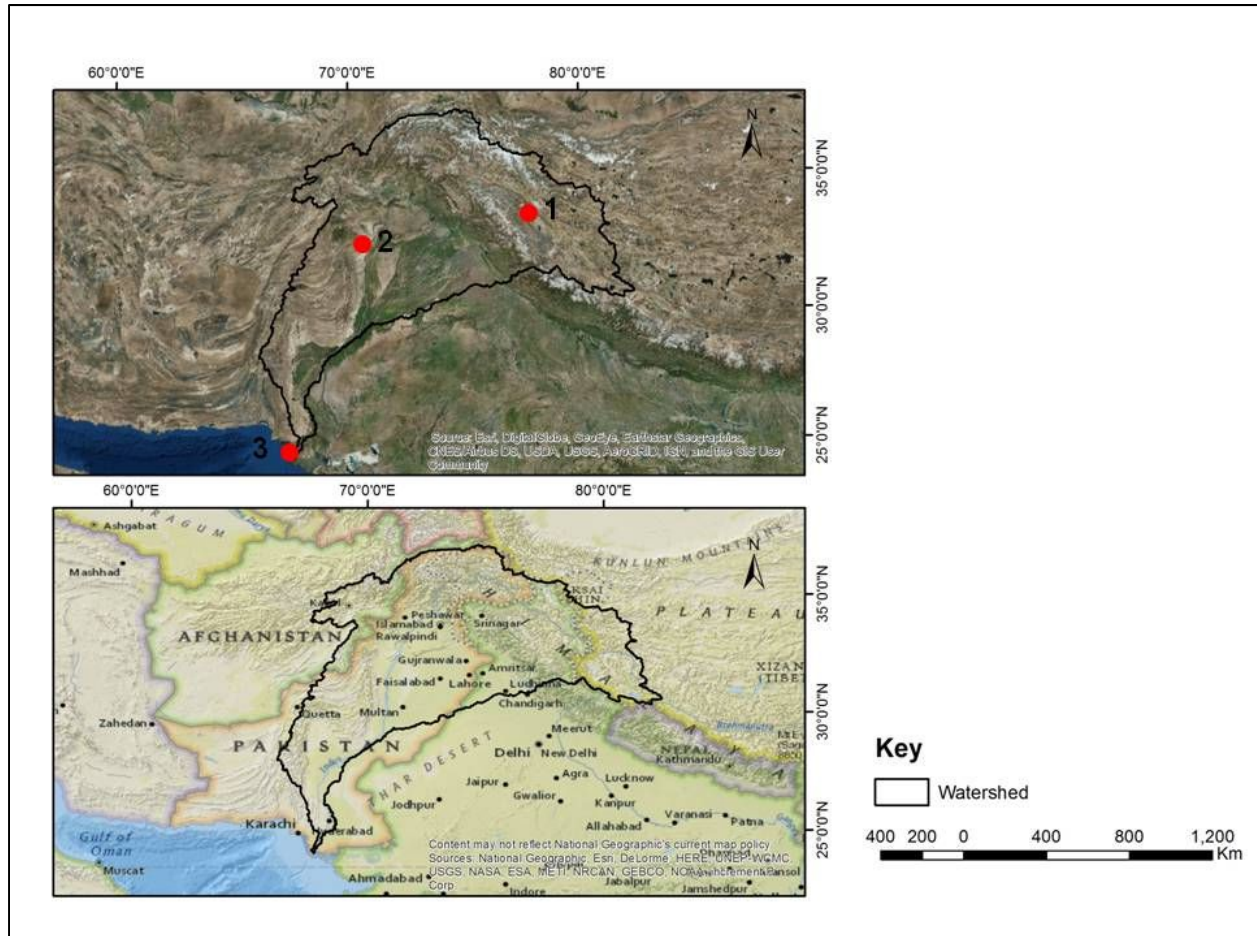
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Assignment 5

Source 5 includes two maps of the same drainage basin. This drainage basin belongs to one of the most important rivers in Asia. The source of the river lies in the Tibetan Plateau, near Lake Manasarovar. Study the provided source and answer the following questions.

Source 5

1 m   **5a**. The drainage basin shown in *Source 5* belongs to which of the following rivers:
       a) the Gange River
       b) the Brahmaputra River
       c) the Sutlej River
       d) the Indus River

2 m   **5b**. At its mouth, this river forms a delta. Currently, the development of this delta is hindered by human factors that cause hydrological disruptions. Identify 2 of these factors.
....
....

1.5 m | **5c**. Match these three pictures (**A** – **B**) representing sectors of the river course with the points marked with numbers from **1** to **3** on *Source 5*.
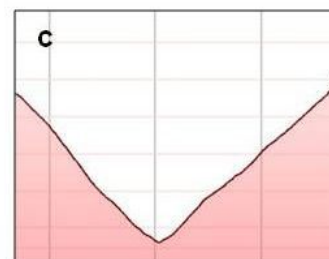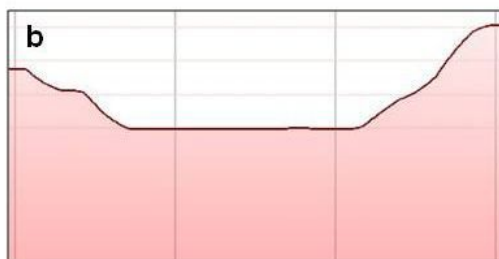

A ……………………   B ……………………   C ……………………

1.5 m | **5d**. Match these three cross profiles (**a** – **b**) of the course of the river with the points marked with numbers from **1** to **3** on *Source 5*.

a ……………………   b ……………………   c ……………………

1 m | **5e**. Identify 2 causes of the pollution of this river.
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....

1 m | **5f**. Propose 2 measures to reduce the pollution of this river.
....
....

Authors of the Test:

Daniela LARION   **Andra-Cosmina ALBULESCU**

Department of Geography, University *Alexandru Ioan Cuza* of Iași, Romania

Other contributors: Oliver DINTER