GEOLYMP
SWISS

2nd Swiss Finals
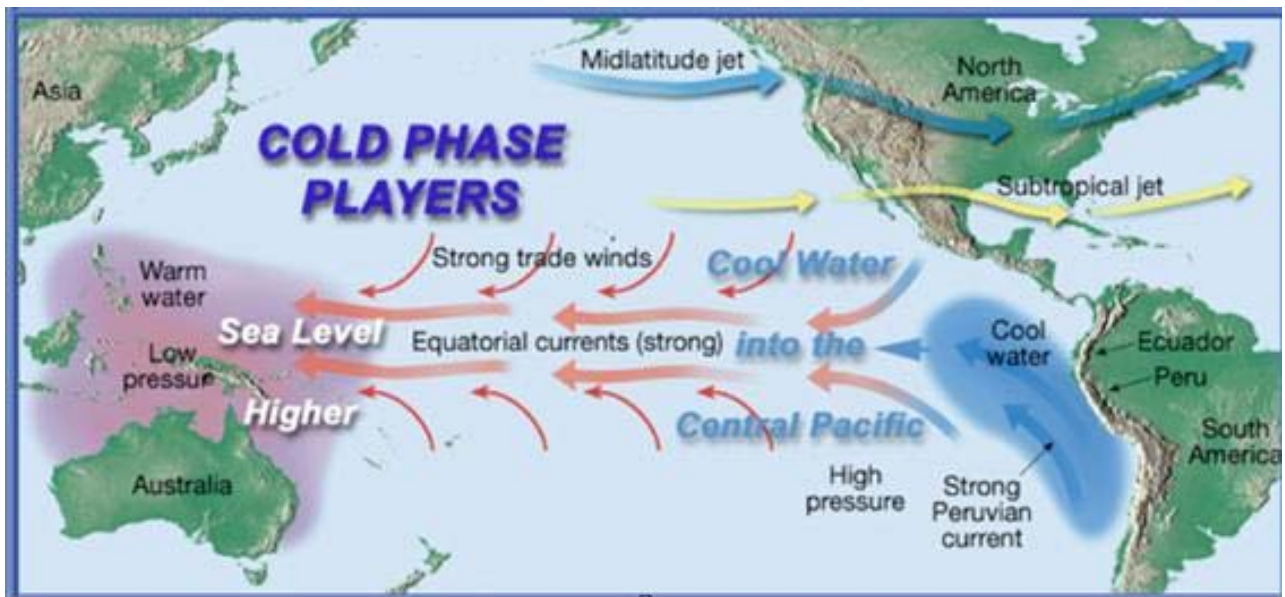26 November 2016

Written Response Test

Do NOT open the booklet
before instructed to do so by a supervisor.

Student Name: …………………………………………………………….

Question 1: El Niño (6 points)

1. The illustration shows the ocean currents and the weather situation on the Pacific during <u>normal</u> years.

1.1) a) Insert into the illustration: Equator (A); Tropic of Cancer (nördlicher Wendekreis) (B)

   b) Explain the direction of the trade winds on the northern hemisphere.

_____

_____

_____

1.2) Insert into the map the following terms during an El Niño year: Equatorial current of warm water, Peruvian current of cold water, rain, wind, anticyclone (H), low-pressure area (T).
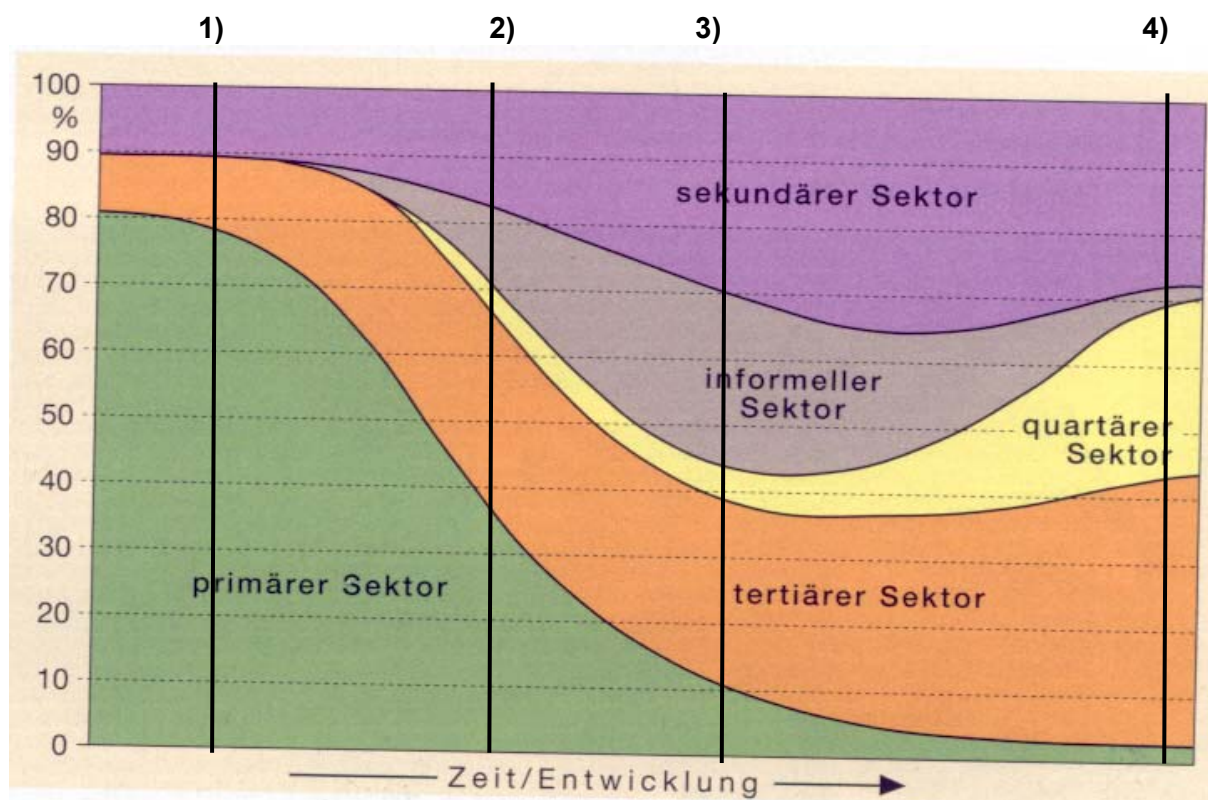
1.3) What are the impacts of El Niño in Peru and Indonesia?

Peru:

_____

_____

_____

Indonesia:

_____

_____

_____

Question 2: Economic sectors in developing countries (5 points)

This illustration shows the change of economic sectors in developing countries.

2.1) Which of the vertical lines numbered 1 to 4 in the graph above describes the following:

the rural life in developing countries? Line number _____

the urban life in developing countries? Line number _____

2.2) What are the reasons why cities in developing countries are growing? Name 2 push- and pull-factors:

Push factor 1: _____

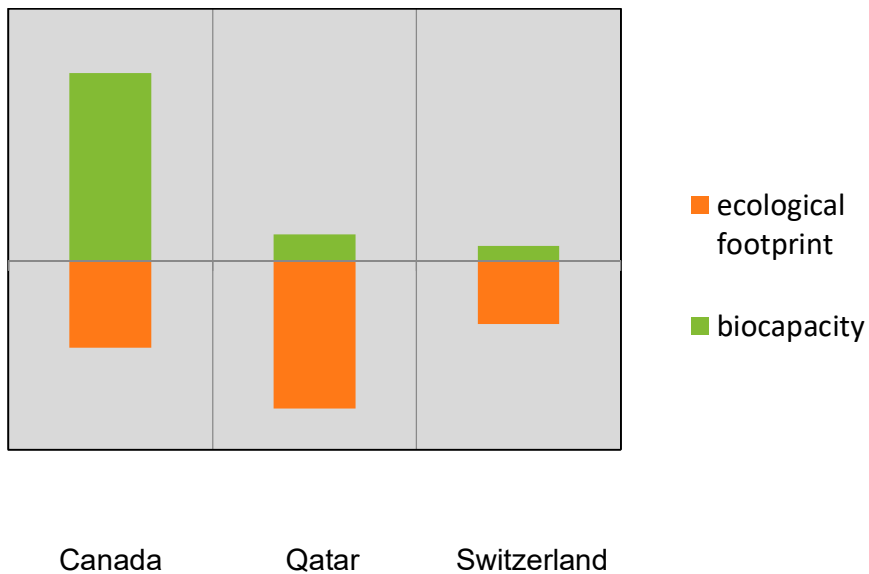Push factor 2: _____

Pull factor 1: _____

Pull factor 2: _____

2.3) How do you have to imagine being part of the life in the informal sector in a city? Explain shortly and give one specific example.

_____

_____

_____

Example: _____

4

Question 3: Sustainable development (4 points)

This illustration shows the ecological footprint and the biocapacity of three different countries.

■ ecological footprint

■ biocapacity

Canada   Qatar   Switzerland

3.1) Indicate two main reasons why Canada has an especially big amount of biocapacity.

1) _____

2) _____

3.2) Indicate two main reasons why Qatar has a big ecological footprint.

1) _____

2) _____

3.2) In Switzerland, the ecological footprint is bigger than the biocapacity. Assess the implications for Switzerland in your own words.

_____

_____

_____

_____

_____

_____

_____
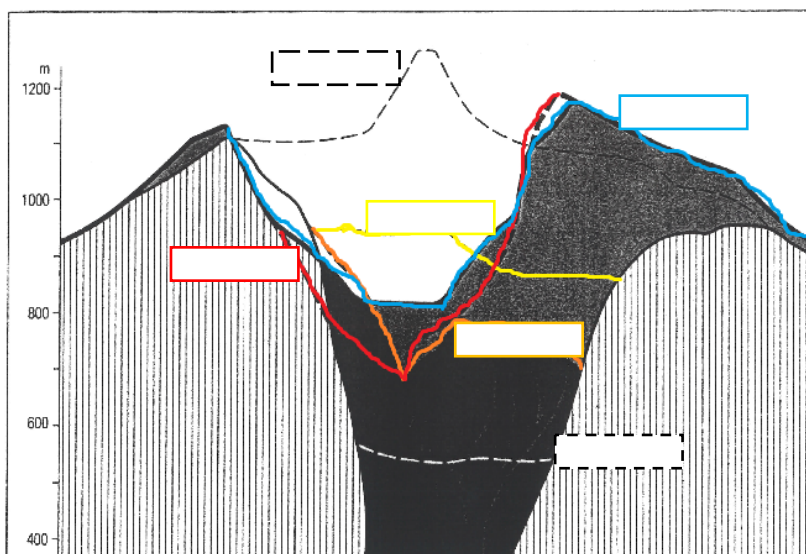
Question 4: Vulcano Vesuvius (5 points)

The Vesuvius at the Bay of Naples is considered to be an active volcano. It is situated nine kilometres from the city of Naples. The last major eruption was in 79 A.D. the most recent one took place in mid-March of 1944.

4.1) What kind of a volcano ist the Vesuvius?

_____

4.2) Match the following years with the respective line. Write the year in the box.

1906/1913/1920/1943/1945/1949

4.3) Name one important reason, why a lot of people live in the very dangerous area around the vulcano.

_____

_____

_____

4.4) Explain one method to predict a volcano eruption.

_____

_____

_____

_____

Question 5: Tourism on the Maldives (4 points)

On the Maldives inhabitants and tourists are strictly segregated. There are islands for inhabitants only and islands exclusively reserved for tourists (tourist resorts).

Assess this concept from the point of view of acculturation (process of cultural change that results of meeting between cultures) and the environment.

acculturation: _____

_____

_____

_____

_____

_____

_____

_____

_____

environment:_____

_____

_____

_____

_____

_____

_____

_____

Question 6: Coal mining (5 points)

6.1) Compare both forms of coal mining (open pit and underground construction). Name four advantages and disadvantages of open pit mining.

Advantages of open pit mining:

1) _____

2) _____

3) _____

4) _____

Disadvantages of open pit mining:

1) _____

2) _____

3) _____

4) _____

6.2) Coal mines in the Ruhr Area in Germany (underground construction) will be closed in 2018. Give three arguments for this political decision.
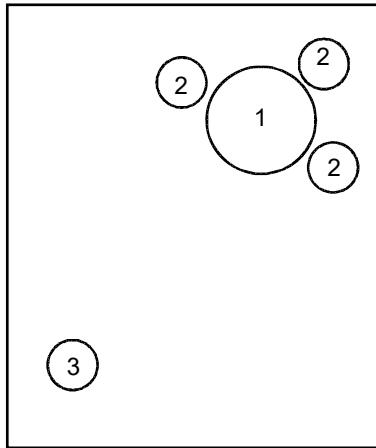
1) _____

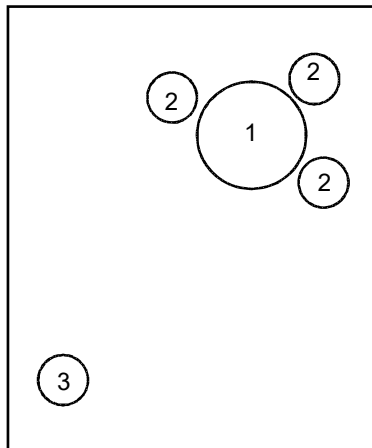2) _____

3) _____

Question 7: Urban planning (6 points)

7.1)   Draw the arrows in the three illustrations of a Swiss city to show the change of the main city (1), the surrounding villages (2) and the rural villages (3).
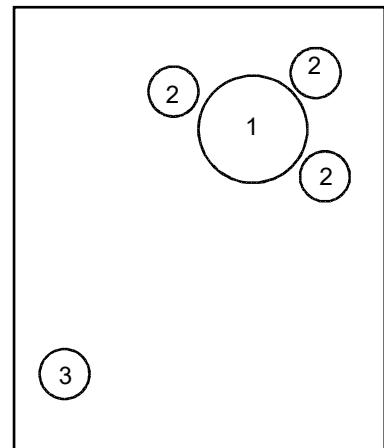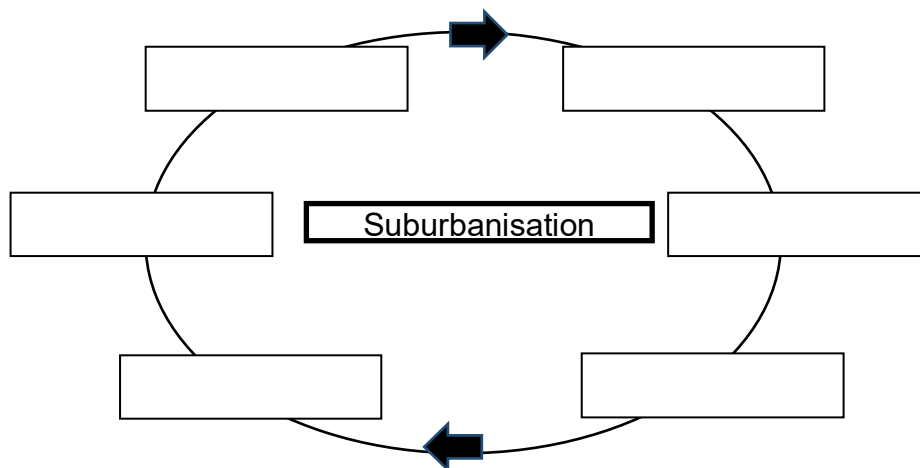
red: Population
blue: Jobs

urbanisation (1850)	suburbanisation (1980)	reurbanisation (2016)

7.2)   Fill in the boxes to show one „vicious circle" of suburbanisation.

Suburbanisation

7.3)   Name two measures to break the circle.

1) _____

2) _____

Question 8: One-Child Policy in China (5 points)

Since 1970, a family in China has been allowed to have one child only.

8.1) Name one pro and one contra argument of the Chinese government, a Chinese family and your own view as a person living in Switzerland.

government of China:

pro: _____

contra: _____

family in China:

pro: _____

contra: _____

your own view:

pro: _____

contra: _____

8.2) In 2015, the One-Child Policy was changed to a Two-Child Policy.

Can you explain this decision of the Chinese government? Use the demographic transition model for your answer.

_____

_____

_____

_____

_____

_____

_____

_____

_____

Images and illustrations: Wikimedia 2016