

2018 United States Geography Olympiad - Written Examination (Middle School)

Student Name _____ School _____

General instructions - Respond to each of examination questions in the space provided. Only answers written in the appropriate space on the answer document will be marked. Where appropriate, you should write sentences or phrases instead of single words. If a question or section asks for a specific number of reasons or answers, give only the number of answers specified. Please write clearly and legibly.

Section 1 - [10 points]

Use the pictures in section 1 to complete the following.

1. [4 points] Circle all of the things below that make significant contributions to global warming.

cars	power plants	cows	horses
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2. [1 point] Which of the things in these pictures is the biggest source of methane gas? _____

3. [2 points] There has been an increase in the amount of methane being released into the atmosphere in recent years. Identify TWO reasons why this is happening.

4. [3 points] Explain briefly how greenhouse gases contribute to global warming.

Section 2 - [10 points]

Use the pictures in section 2 to complete the following.

1. [1 point] These photos show an ongoing eruption on which of the Hawaiian Islands? _____
2. [1 point] What is the name of the volcano shown here? _____
3. [1 point] For approximately how long has this volcano been continuously erupting? (circle your answer)
3 weeks 3 months 1 year 45 years 250 years
4. [3 points] Briefly explain why the Hawaiian Islands contain so many active volcanoes. Use the terms hotspot and tectonic plate in your answer.

5. [4 points] Give two reasons why people in Hawaii might live near active volcanoes.

Section 3 - [10 marks]

Use the picture in section 3 to complete the following.

1. [1 point] Circle the main cause of the landforms in the picture – humans wind glaciers

2. [3 points] Identify each of the following landforms on the photo.

X - _____ Y - _____ Z - _____

3. [3 points] Answer the following questions by circling T or F for each statement.

These landforms would likely be found in Australia	T	F
Drumlins might also be found near these landforms	T	F
This area might also contain a paternoster lake	T	F

4. [3 points] What is one type of recreational activity people might do in this area during the summer?

What is one type of recreational activity people might do in this area in the winter? What type of weather is this area likely to have in the winter?

Section 4 - [10 points]

Use the pictures in section 4 to complete the following.

1. [1 point] Identify the crop being harvested in the top picture _____
2. [1 point] Identify the crop being planted in the bottom picture _____
3. [1 point] Circle the type of farm in the top picture – subsistence commercial
4. [1 points] Circle the type of farm in the bottom picture – subsistence commercial
5. [6 points] Answer the following questions by circling T or F for each statement.

Commercial agriculture often uses center pivot irrigation	T	F
Both commercial and subsistence agriculture can be sustainable	T	F
Subsistence agriculture usually involves large amounts of chemical pesticide	T	F
Commercial agriculture is most often practiced in developing countries	T	F
Rice farming is a major source of greenhouse gasses	T	F
The goal of subsistence agriculture is production of cash crops for profit	T	F

Section 5 - [10 points]

Use the pictures in section 5 to complete the following.

1. [1 point] What month has the highest average rainfall in Kuala Lumpur? _____

2. [1 point] What is the highest average temperature (in degrees Celsius) in London? _____

Use the choices below to answer questions 3 and 4.

Dwa	Af	BWk	Cfb
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3. [1 point] Under the Koppen system, which of these characterizes the climate of London? _____

4. [1 point] Under the Koppen system, which of these characterizes the climate of Kuala Lumpur? _____

Use the choices below to answer questions 5 and 6.

Medellin, Colombia	Zagreb, Croatia	Mexico City, Mexico	Alice Springs, Australia
Lisbon, Portugal	Accra, Ghana	West Palm Beach, FL	Vienna, Austria

5. [1 point] Which TWO of the cities above shares the same Koppen classification with London?

6. [1 point] Which TWO of the cities above shares the same Koppen classification with Kuala Lumpur?

Look at the diagram of a certain kind of precipitation in section 5 and answer the following questions.

7. [1 point] Circle the type of precipitation shown in this diagram – orthographic convectional cyclonic

8. [3 points] Briefly describe the steps illustrated by the diagram labeled X, Y, and Z.

X - _____

Y - _____

Z - _____