

**2019 United States Geography Olympiad - Map 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 - [15 points]**

Use the map section and legend in section 1 to complete the following. The map shows part of a camping and trail area in Big Bend National Park.

1. [5 points] Answer the following questions about the map in the space provided.

How many roads are visible in this section of the map? \_\_\_\_\_

What is the shortest distance (in miles to the nearest tenth) on the trail between the points marked A on the map? \_\_\_\_\_

What is the shortest distance (in miles to the nearest tenth) on the trail between the points marked B on the map? \_\_\_\_\_

How many campsites are there in Southeast Rim? \_\_\_\_\_

What is the approximate distance on the trail between SW4 and the nearest toilet? \_\_\_\_\_

2. [2 points] Why is it so difficult to accurately measure distance on a trail map of this scale? \_\_\_\_\_

3. [2 points] Answer the following questions by circling T or F for each statement.

It is more than 1.5 miles between the campsites CO2 and BL 1.	T	F
The Blue Creek trailhead is due west of Juniper Canyon trail.	T	F

4. [1 point] What is the name for the lighter colored lines all over the map? \_\_\_\_\_

[1 point] What do these lines show on a map like this? \_\_\_\_\_

5. [4 points] For each pair below, circle which point has the HIGHER elevation. You will receive an additional point if all three are correct.

A or B

C or D

B or D

**Section 2 - [10 points]**

Use the pictures in section 2 to complete the following. These maps and charts show the location and population of world megacities in 1980 and 2010.

1. [2 points] Define the term megacity. \_\_\_\_\_

2. [1 point] What is the minimum population to be considered a megacity? \_\_\_\_\_

3. [1 point] Which continent had the most megacities in 1980? \_\_\_\_\_

[1 point] Which continent had the most megacities in 2010? \_\_\_\_\_

4. [2 points] Consider the cities listed in 1980. By 2010, which one had -  
its population increase by the highest percentage? \_\_\_\_\_

its population increase by the largest number of people? \_\_\_\_\_

5. [3 points] Give three reasons why people might move from rural areas to megacities in countries like China, India and Pakistan.

reason 1 \_\_\_\_\_

reason 2 \_\_\_\_\_

reason 3 \_\_\_\_\_

**Section 3 - [10 points]**

Use the map in section 3 to complete the following.

1. [6 points] Answer the following questions by circling T or F for each statement.

The United States consumes more oil than any other country.	T	F
The Asia Pacific region consumes a majority of the world's oil.	T	F
Africa consumes more oil per capita than the Middle East.	T	F
South America consumes the least oil.	T	F
Australia has no measurable oil consumption.	T	F
This map shows the US as a net exporter of oil.	T	F

2. [4 points] Explain the relationship between oil consumption and economic prosperity and development.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Section 4 - [15 points]**

Use the map in section 4 to complete the following.

1. [1 point] Identify the desert marked B on the map. \_\_\_\_\_

[1 point] Of A and B, which desert area receives more average rainfall? \_\_\_\_\_

2. [2 points] Describe the temperature and rainfall of a hot desert climate.

temperature \_\_\_\_\_

rainfall \_\_\_\_\_

3. [2 points] Mesas can form in hot deserts. Define the term mesa. \_\_\_\_\_

[2 points] Describe the process by which a mesa forms in a hot desert area. \_\_\_\_\_

[1 point] What landform results from weathering and erosion of a mesa causing the top of the mesa to become narrower than the height? \_\_\_\_\_

4. [6 points] Answer the following questions by circling T or F for each statement.

There are no hot deserts in the United States.	T	F
The Atacama Desert is in South America.	T	F
The desert marked A on the map is the Kalahari.	T	F
Most of the hot deserts in the world are in the southern hemisphere.	T	F
The hot deserts of the world are located within 5 degrees of the equator.	T	F
The Gobi Desert is a hot desert.	T	F