

### **General instructions -**

Respond to each of the following questions on the answer document 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 required number of answers specified. The examination consists of ten sections, and each section will be worth the specified number of marks. You will have one hour to complete your work.

#### **Section 1 - Cartography [9 marks]**

1. Marco wants to make a general map of the world to hang on his wall.
  - A. Give one specific advantage for using the Mercator projection to create this map. Give one specific problem that would result from using the Mercator projection, and one way that problem would be manifested in Marco's map.
  - B. Name one projection that would create a more accurate view of the world than the Mercator projection.
  - C. Marco goes to the art store to buy paint for his map. What's the fewest number of colors he will need to paint the countries such that two bordering countries are not of the same color?
  
2. Carly is making a map of the hiking trails in her nearby park.
  - A. She wants to include iso lines that show differences in elevations. What are these lines called?
  - B. What does it mean when these lines are really close together?
  - C. What does it mean when one of those lines has hash marks on it?
  - D. Between Carly's map and Marco's map, which one can be described as "small-scale" and why?

#### **Section 2 - Climate Geography [6 marks]**

1. Identify the effects of El Nino on the location, frequency and intensity of tropical cyclones.

#### **Section 3 - Developing Country Urban Geography [6 marks]**

1. Identify three specific problems associated with rapid urbanization in developing countries.

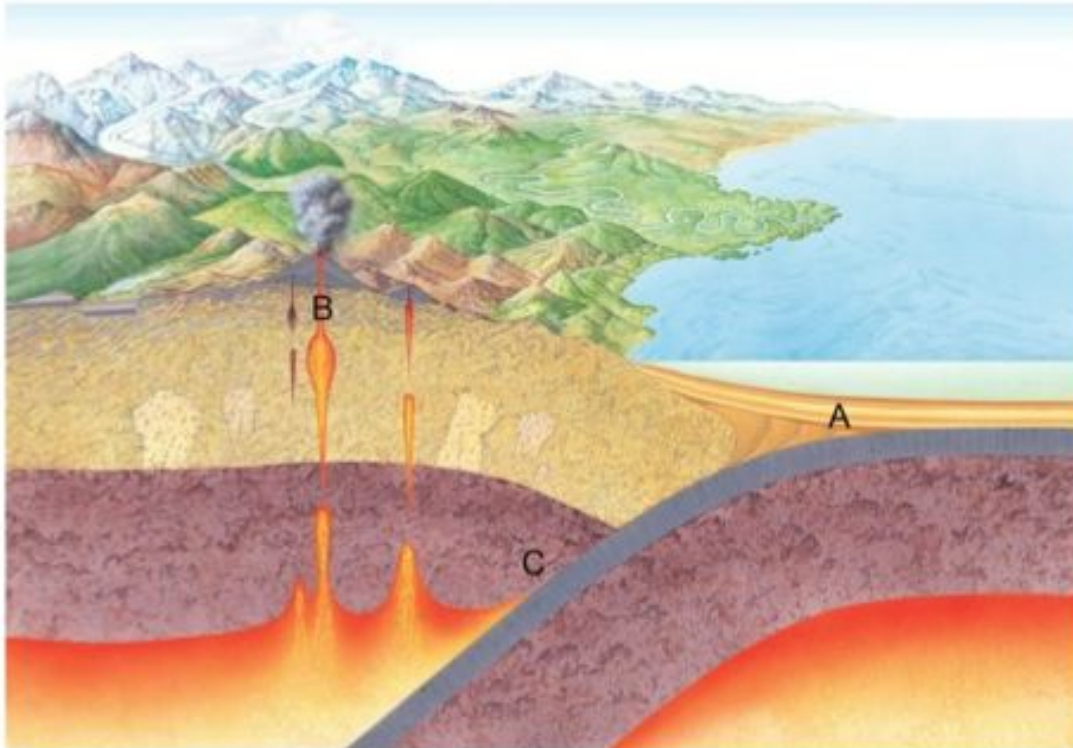
#### Section 4 - American Urban Geography [6 marks]

1. Define the term conurbation.
2. Identify one specific area of conurbation within the United States, and one international conurbation between the United States and a neighboring country.

#### Section 5 - Biogeography [7 marks]

1. Briefly describe the equilibrium or dynamic theory of island biogeography formulated by MacArthur and Wilson in 1967.
2. According to this theory, would a larger island generally have a higher or lower rate of extinction of species than a smaller island? Give two reasons you would expect this result.

#### Section 6 - Volcanology [6 marks]



1. Given the accompanying illustration, name the rock type formed at A, B, and C and give a specific example of each.

**Section 7 - Geomorphology [6 marks]**



1. Given the accompanying illustration, identify the features labeled 1, 2, 3, and 4 on the diagram.

2. What specific geologic process would result in the type of landforms illustrated here?

3. Other than the type of lake represented by 3 on the illustration, name one additional type of lake that might be formed by the geologic process represented above.

**Section 8 - Cultural Geography [12 marks]**

**Part A**

1. Define the term 'language isolate'.
2. Give three distinct examples of language isolates.
3. Identify two geographic factors that have had an influence on the development of one of your examples.

**Part B**

1. Define the term syncretism.
2. Give three distinct examples of syncretic religions.
3. Identify three reasons that have historically resulted in the formation of syncretic religions.

**Section 9 - Economic Geography [9 marks]**

1. Define the term maquiladora.
2. Identify at least three factors that have led to the rise of maquiladoras on the US-Mexico border over the last fifty years.

**Section 10 - Historical Geography [8 marks]**

1. How did developments in transportation affect the growth patterns of major American cities in the period from 1860 to 1900?