

Grade 9
Geography Exam
2010

Hillcrest High school

Time: 2 hours
Marks: 130

Examiner: Mr Madeley

- Instructions:**
1. Write as neatly and clearly as possible
 2. Read questions carefully-the length of your answer must be guided by mark allocation
 3. Answer all the questions in this paper
 4. Refer to the separate booklet for all sources and diagrams
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Section A World knowledge and map work techniques

Section B people and natural disasters

Section C Humans and natural resources

Section A Question One

Refer to the map of Durban to answer the follow questions:

1. What kind of map is this?
 - a. contour map
 - b. political map
 - c. topographical map
 - d. thematic map(1)
2. Give the scale of this map as a statement. (1)
3. Explain what a contour interval of 20 meters means. (2)
4. Name two ways of representing height on this map (2)
5. How many minutes of longitude would you have travelled across the mapped area from the 31 degree line to the end of the map? (2)
6. Give the direction you would travel in if you drove along the n3 from Musgrave (D1) towards Berea West (A1) (2)

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7. Give the value of the spot height in block E 5. (2)
8. Name:
a) a recreational and
b) a commercial land use in the vicinity of block E1 (4)
9. Calculate the straight line distance in metres between the old whaling station and the Port signal tower. (2)
10. Give the latitude in degrees and minutes of the lighthouse at the end of the south pier. (2)
11. Calculate the true bearing a ship leaving Durban harbour would be steaming on as it passes between the north and south piers. (2)
12. Name one development/project taking place in or around Durban before the world cup, that may have an impact on the city.(not visible on the map) Give one advantage and one disadvantage of this development for the city (4)
13. Name the main activity or land use in the following areas: (ie:activity that takes up the most land area)
- a. grid E3
b. A5 (4)

Question 2

Refer to the world map and answer the following questions.

2.1 Name the lines:

- a) 8,
b) 9
c) and 10 (3)
- 2.2 How many continents are there in the southern hemisphere only? (1)

- 2.3 Explain the significance of lines of longitude and latitude (4)
- 2.4 Name ocean 1. (1)
- 2.5 Name continents 4, 11 and 10. (3)
- 2.6 Explain why Tsunamis are a threat in region 12. (4)
- 2.7 Name a region from the map where volcanoes are a threat. (1)
- 2.8 Which region of the earth is hottest 8 or 2? Give a reason for your answer. (4)
- 2.9 Which province in south Africa
- contains Pretoria
 - forms the border between SA and Zimbabwe
 - Has Bisho as its capital
 - forms the southern most part of Africa (4)

Total section A: 55 marks


Section B Natural Disasters

Read the extract on the Icelandic volcano and answer the following questions

- 1.1 Describe three hazards posed to this family that caused Civil defence to tell them to evacuate. (6)
- 1.2 What is a "dormant" volcano? (1)
- 1.3 Volcanoes and earthquakes occur in the same regions- normally along plate boundaries. Explain why this is so. (4)
- 1.4 Why was Western Europe turned into a "no-fly zone"? (2)

Natural events can have negative and positive effects.

- 1.5 Describe one positive and one negative effect of the eruption for Iceland. (4)

- 1.6 Why do you think it is significant that the volcano had not erupted since 1821? (2)
- 1.7 The island of Haiti was devastated by an earthquake earlier this year. **State 3 reasons** why Haiti was not as well prepared to deal with an earthquake as a country like Iceland or the United states would be. (6)
- 1.8 What are :
- a. richter scale
 - b. fault
 - c. magma
 - d. earths crust (4)
- 1.9 In which layer of the earth does molten lava originate? (2)
- 1.10 Name the natural disaster that is referred to in each of the following cases:
- ~~1.11~~ 
- a. consists of a violently twisting column of air
 - b. has an eye at the centre
 - c. causes waves to travel at the speed of sound. (3)
- 1.12 "**Global warming is a man made disaster**" Do you agree with this statement? Explain your answer by referring to your knowledge of how global warming is happening. (4)
- 1.13 What disastrous effect could global warming have on the world? Describe two effects. (4)

Total section B**42 marks****Section C People and resources****Question One Energy**

- 1.1 Renewable energy sources such as wind energy is often referred to as sustainable. Why is this? (2)
- 1.2 Explain one disadvantage of using nuclear power to meet the electricity demands of South Africa. (2)
- 1.3 The new Medupi coal fired power station being built in Limpopo province poses a threat to the environment of south Africa.

Describe two possible effects on the environment. (4)

Refer to the map showing rainfall patterns in south Africa and read the article extract on the drought

Name the province that:

- (a) receives the lowest average rainfall
- (b) receives the most rainfall (2)
- a. In which direction does rainfall decrease in south Africa? (1)
- b. Give evidence from the map that supports the idea that South Africa is a dry country. (2)
- c. During which season does most of South Africa receive its rainfall? (1)
- 2.2 What is a drought? (2)
- 2.3 State three reasons why this drought could be an "economic disaster" as stated in the article. (6)
- 2.4 Choose the correct term from the list provided for each of the following descriptions.** (8)
- a. an area through which a river and its tributaries

flows

- b. A mountain range that separates rivers
- c. area under the ground where rivers obtain water
- d. the process that cycles water from the atmosphere to the earth.

hydrological cycle, water table, watershed, drainage basin.

Name and explain the cause of one problem apart from drought and low rainfall, affecting South Africa's water supply. (3)

Total section C: 33 marks