

Hillcrest high School
Geography

November 2015
Grade 9

Marks: 150
Time: 2 Hours

Examiner: C. Madeley

Instructions: 1. Attempt all the questions on this paper

2. Answer all questions on the answer booklet provided.
3. Think the answers through and write carefully- the questions have been designed to give you opportunity to do well

Question One

Refer to the attached topographical map extract of Touwsriver and answer the following questions.

1.1 Give the following information from the map:

- a. The contour interval
- b. The ratio scale
- c. two ways in which height is represented on the map
- d. The main land use in this area.

5

1.2 If you were visiting Touwsriver for the first time what:

- a. Latitude and longitude would display on your GPS locator on your cell phone? (write your answer in degrees) 2
- b. direction would you have to drive in to reach the small town of Kleinstaat? 2
- c. mode of transport would you use to travel to the town of De Doorns? 2
- d. Outdoor activity could you find in the area North of the town? 2
- e. comments would you make to your friends about the town itself and its surroundings.-its size, activities and attractions. 4

1.3 Study the landscape and natural features around Touwsriver. Identify two physical factors that led to the exact location of this settlement. 2

1.4 You and some friends decide to climb Draaiberg. You set out from the railway station in C4 and climb to the top of the mountain. How much higher will you be than the station once you reach the top? 2

1.5 Calculate the straight line distance in metres that you walked. 2

1.6 Comment on the difficulty of your climb. Give a reason for your answer. 2

1.7 Identify the different types of slopes and landforms that occur in this area by studying the contours. Choose the correct answer in each case and write down only your answer.

- a. the type of slope in grids G1-3 is a concave/convex slope. 2
- b. The feature in G7 is a river valley/Spur. 2
- c. The feature in G6 is a spur/saddle. 2

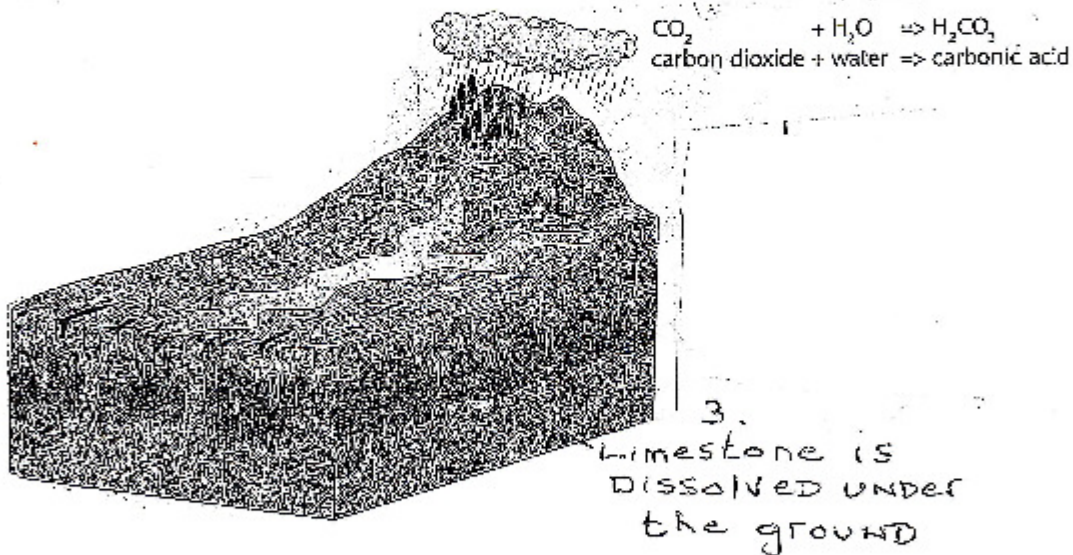
1.8 A number of rivers flow through this area. Describe two processes by which these rivers change the landscape. 2

1.9 Describe and give a reason for the route followed by the railway line through this area. 2

[35]

Question Two Forces that shape the earth

Study the diagram below:



2.1 Why is chemical weathering the dominant process here? 2

2.2 What role does weathering play in changing our landscapes? 3

2.3 Name the typical features that have formed because of this type of weathering. 2

2.4 Name one south African landform that is an example of this feature.

Where is it located? 2

2.5 Name one other type of weathering that takes place in South Africa and explain how it happens. 4

2.6 Can man's activities contribute to the process shown? How?

2

[15]

Question Three Erosive forces

3.1 State which agent of erosion is responsible for the formation of each of the following landforms:

- a. Delta
- b. Floodplain
- c. Arch and stack
- d. Rock pedestal
- e. Sand Dunes

5

3.2 Refer to photo A of a waterfall and the potholes at B.

- a. Explain why waterfalls and potholes are not normally found in the lower course of the river. 2
- b. Explain how the potholes at B were formed. 4
- c. Comment the economic importance of the river in its upper course. 4

A.



B.

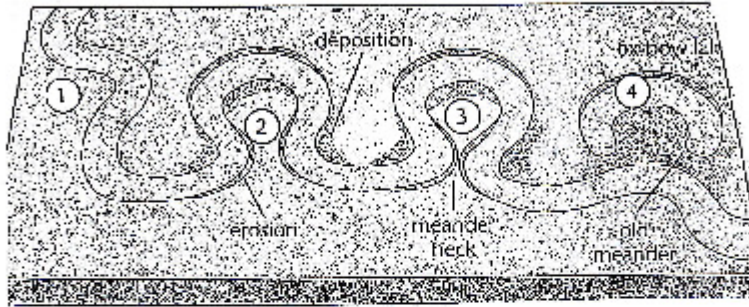


Potholes in
River Bed.

3.3 Use the picture below to explain the terms:

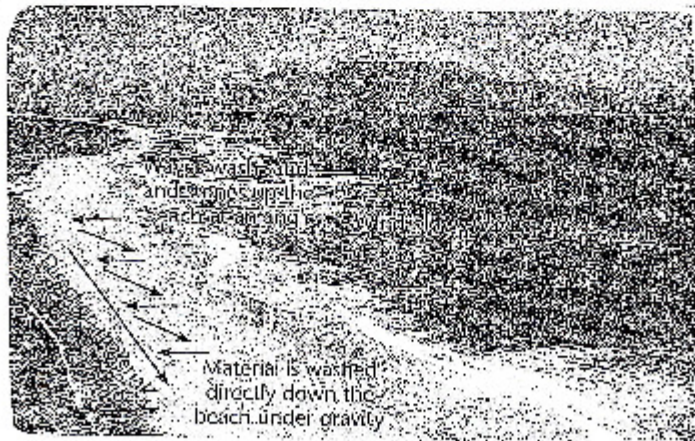
- a. floodplain
- b. Old meander.

4



Question 4

Examine the photograph and captions of part of the Cape Town's coast below:

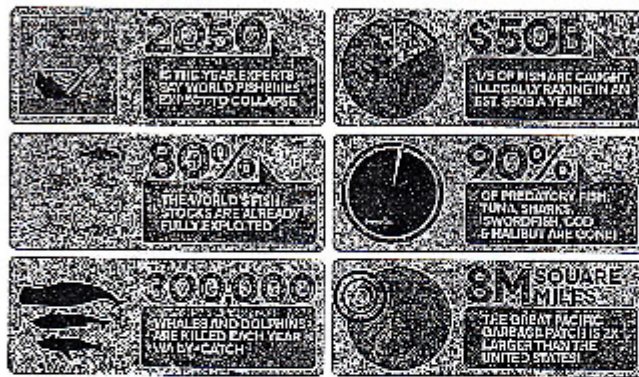


- 4.1 What causes long shore drift? 2
- 4.2 Name one coastal feature that can form as a result of long shore drift. 1
- 4.3 Explain the problem that long shore drift causes for people? 4
- 4.4 Suggest a strategy to deal with the problem of long shore drift. Say how it will help improve the situation. 3

[29]

Question Five Resource Use and sustainable development

Refer to the following poster



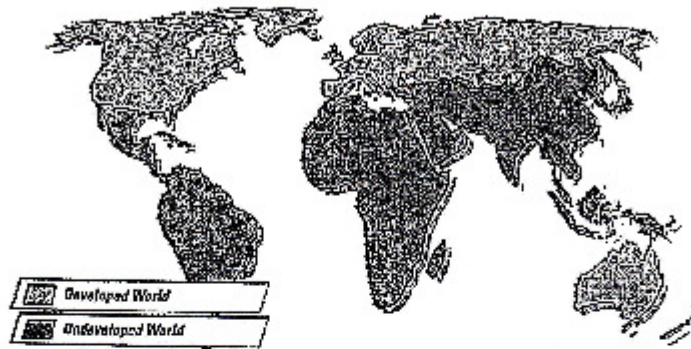
- 5.1 Name the two environmental problems/issues referred to in this poster. 2
- 5.2 Explain:
- a. fish stocks are fully exploited
- b. fish stocks will soon collapse. 4
- 5.3 Explain how:
- a. technology
- b. population growth
- c. industrial development have all contributed to the problem of overfishing 9
- 5.4 Outline two strategies that we should employ to save the oceans. 4
- 5.5 Use the words in the box below to help you write a short paragraph explaining how soil erosion occurs in rural areas. Try to use all the words. 8 [25]

[25]

animals, uneducated, soil,
exposed, over-graze, wind;
running water; topsoil;
trampling.

Question Six

Refer to the image below of the continents



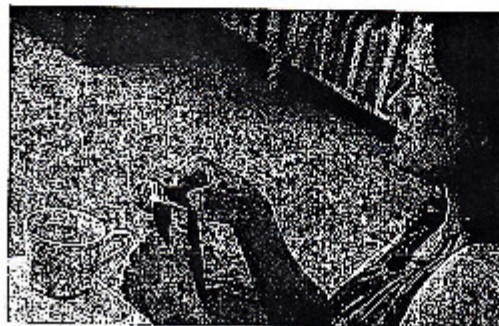
- 6.1 What does this map suggest about the pattern of development in the world? 2
- 6.2 Give **another** name or term for 'LEDC' country 2
- 6.3 Which two continents have the highest proportion of industrialized countries? 2
- 6.4 Suggest one historical and one economic reason for the unequal development that is shown here. 4
- 6.5 Suggest two reasons why this map could be misleading? 2

[12]

Question Seven

Read the extract from the fairtrade.org.uk website and answer the following questions.

Buying Fairtrade chocolate makes a huge difference to the lives of cocoa farmers and their families around the world. Fairtrade helps to make cocoa farming in places like Ivory Coast and Ghana more sustainable by guaranteeing minimum prices and providing a premium to invest in local communities, so farmers can provide a better future for themselves and their families. Despite demand prices of cocoa beans have fallen in recent years and farmers struggle to make ends meet.



- 7.1 State two problems faced by farmers in countries like Ghana and Ivory Coast. 4
- 7.2 How will minimum prices help development in these regions? Give some examples. 4
- 7.3 Name two development indicators you might use to measure social development in Ghana. 2
- 7.4 Why, in your opinion are fair trade organisations based in Europe? 2
- 7.5 What does GDP stand for? How will Fair Trade products affect the GDP of these countries? 4

[16]

Question Eight

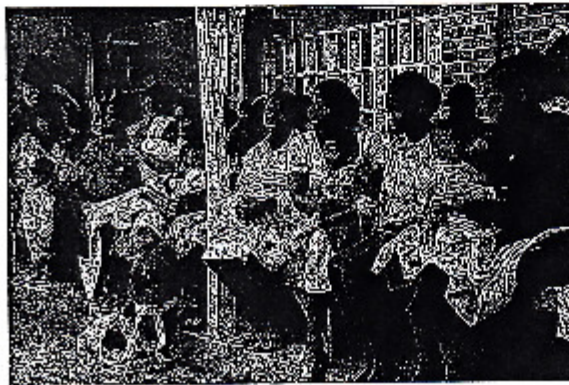
B. Answer true or false for each of the statements below. Give a reason for your answer in each case.

- a. developing countries tend to export raw materials and import manufactured goods.
- b. developed countries tend to be more industrialized than developing countries
- c. A developed country is likely to have an HDI score of 0,5 while a developing country will have a score of 0,9.
- d. political stability is common in developing regions.
- e. Population growth is linked to low levels of development. (10)

Question Nine The picture below shows people in South Africa queuing at a regional clinic.

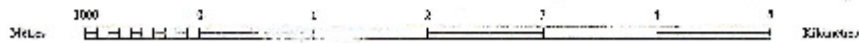
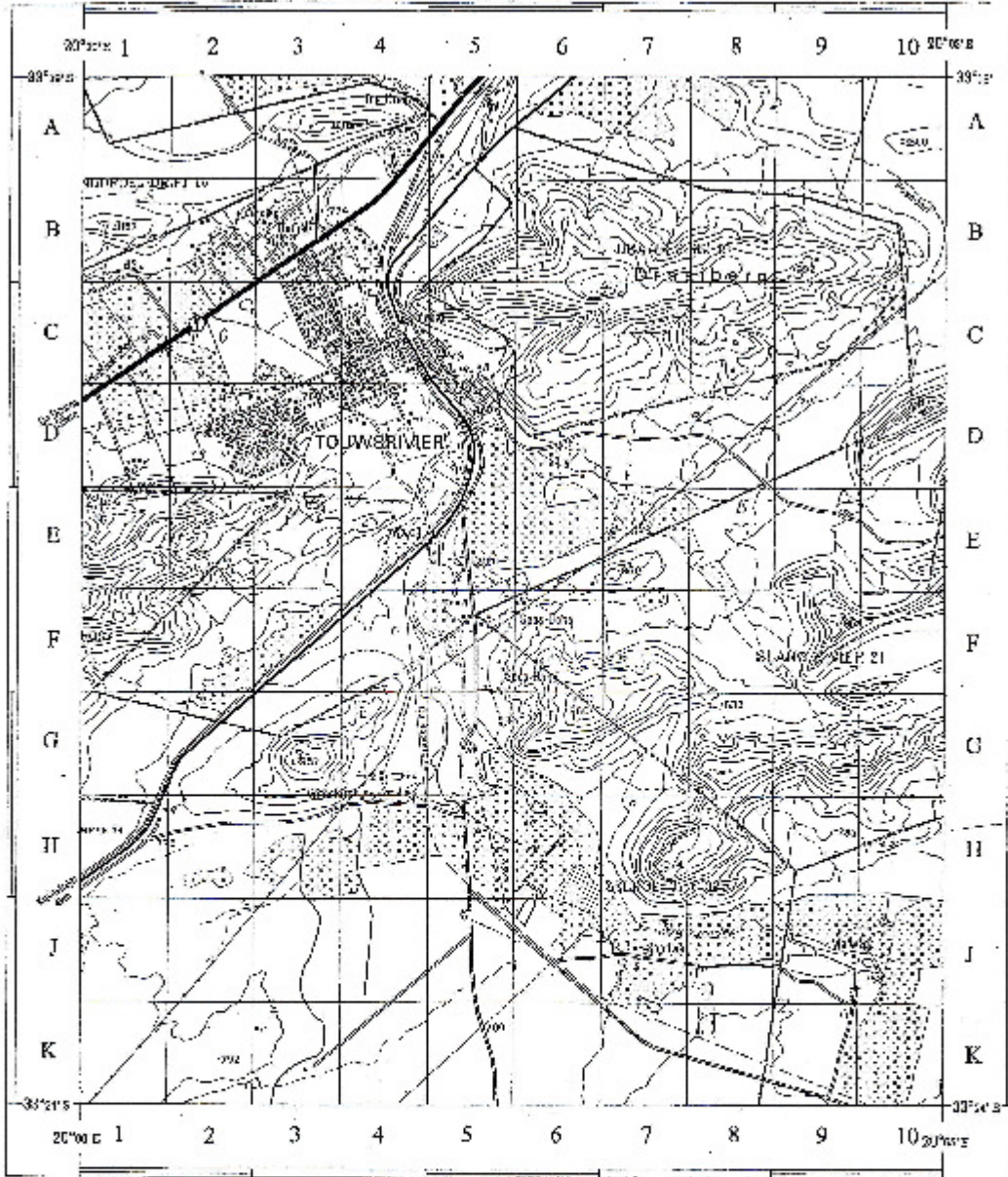
- 9.1 Identify two development indicators related to health and healthcare. 2
- 9.2 Outline two development problems suggested by this photograph. Suggest one strategy to deal with each of the issues you identified. 6 [6]

[8]



EXTRACT FROM TOUWSHRIVIER 3320 AC

1:50 000



Coordinates: 28° 20' S, 26° 00' E

REFERENCE

National Freeway: National Road	International Boundary and Beach	Wreck Wall
Arxial Road	Unsettled Boundary	Windmill Monument
Main Road	State, Nature Reserve & State Forest Boundary	Communication Tower
Succursary Road: Trench Mark	Perennial River	Min. Camp Excavation
Other Road: Bridge	Perennial Water	Thronomical Station: Wireless Beacon
Track and Motor Toll	Intermittent River	Lighthouse and Marine Light
Highway: Station or Sidings	Non-Perennial Water	Cemetery: Grave
Other Highway: Tunnel	Dry Water Course	Cemetery: Sand
Embankment: Cutting	Dry Pan	Abandoned Land
Power Line	Marking Wall	Abandoned Road
Build-up Area	Pipeline across ground	Orchard or Vineyard
Building: Bath	Water Tower: Reservoir: Water Point	Residual Ground
Post Office: Police Station: Clinic	Covered Bridge	Row of Trees
Place of Worship: School: Field	Pump-out Point: Dam	Digital Farm

The little town of Jowesrivier has an important place in South African transport history. The first railway line built from Cape Town to the interior passed through the town after the extremely steep and difficult climb through the Hex River Pass. A locomotive workshop was built to service trains and a marshalling yard was laid out where goods trucks could be moved and hitched (attached) to engines that would deliver the goods to their destinations. The old rail route, labelled in G4 (*Ou Spoorroete*), has been replaced by a new electrified line.