



Province of the
EASTERN CAPE
EDUCATION

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REPUBLIC OF SOUTH AFRICA

CHIEF DIRECTORATE – CURRICULUM MANAGEMENT

**GRADE 12 LEARNER SUPPORT
PROGRAMME**

**REVISION AND REMEDIAL TEACHING
INSTRUMENT:
QUESTIONS AND ANSWERS**

SUBJECT: GEOGRAPHY – FIRST PAPER

June 2009

This document consists of 8 pages.

Strictly not for test/examination purposes

INSTRUCTIONS AND INFORMATION

1. The QUESTION paper consists of TWO sections, namely SECTION A and SECTION B.
2. ANSWER ALL QUESTIONS.
3. All diagrams are included in the annexure.
4. Leave a line between subsections answered.
5. Start EACH QUESTION on a NEW page.
6. Number the answers correctly according to the numbering system used in this QUESTION paper.
7. Do NOT write in the margins of the ANSWER BOOK.
8. Where possible, illustrate your answer with labelled diagrams.
9. Write neatly and legible.
10. Mark Allocation: If marks are given as follows – $3 \times 2 = 6$, it means that THREE facts should be given for TWO marks each.
If marks are given as follows – $3 \times 1 = 3$, it means that THREE facts should be given for ONE mark each.

SECTION A: PHYSICAL GEOGRAPHY**QUESTION 1: [12.1.2-12.1.5] [12.2.1 – 12.2.4] [12.3.1 – 12.3.2]**

- 1.1 Match the statement in COLUMN A with a term chosen from COLUMN B. Write only the QUESTION number and the letter of the most correct term next to it for example 1.1.11 M.

	COLUMN A		COLUMN B
1.1.1	The movement of air masses towards a low pressure area is called ...	A	Attrition
1.1.2	“Hidden” heat energy that is given out when water changes state is called ...	B	Pressure gradient
1.1.3	Rock falls are most likely to occur on the ...	C	Convergence
1.1.4	Material carried by a river gets smaller, rounder and smoother as a result of the process of ...	D	Knickpoint
1.1.5	Horizontal difference in pressure is ...	E	Free face
		F	Abstraction
		G	Latent heat

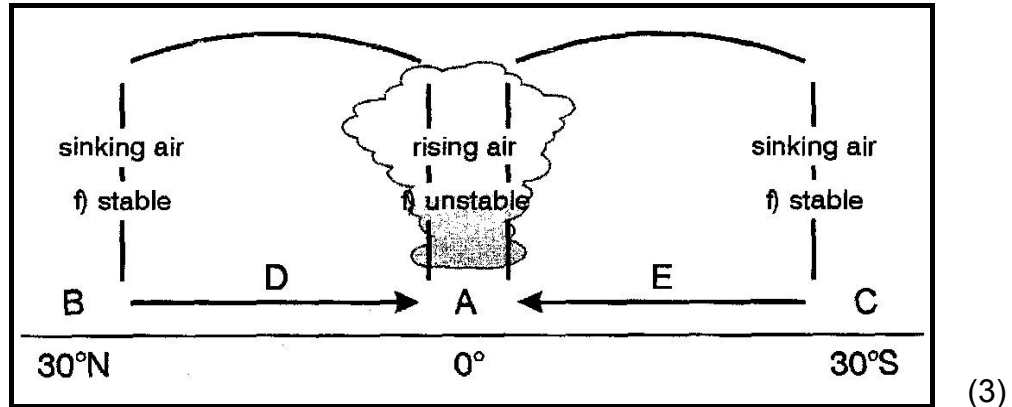
(5 x 2) (10)

- 1.2 FIGURE 1.2 (Addendum) is a section of a South African synoptic chart. Tropical cyclone Caroline and satellite image is clearly visible along the east coast of South Africa. Refer to FIGURE 1.2 and answer the QUESTIONS that follow:

- 1.2.1 Give THREE pieces of evidence on the synoptic chart, which indicates that Caroline is a tropical cyclone. (3 x 2) (6)
- 1.2.2 (a) Which letter P, Q, R or S represents the dangerous semi-circle? (1 x 2) (2)
- (b) In which stage of development, developing or mature, is tropical cyclone Caroline? (1 x 2) (2)
- 1.2.3 Give ONE reason for choosing the stage of development in QUESTION 1.2.2 (b). (1 x 2) (2)
- 1.2.4 With reference to temperature, explain why conditions were favourable for the development of a tropical cyclone? (1 x 2) (2)
- 1.2.5 Describe the weather experienced in the vicinity of the weather station between isobars 1008 and 1010 along Mozambique’s coast. (4 x 1) (4)

1.3 Redraw the diagram (FIGURE 1.3) on your answer page and answer the following QUESTIONS:

1.3.1 Use arrows on the diagram to indicate where the air is rising and sinking.



1.3.2 Complete the labels A, B and C by stating the name of each pressure belt. (3 x 1) (3)

1.3.3 Name the surface winds that would occur at D and E in this circulation cell. (1 x 2) (2)

1.4 Carefully study the following photograph (FIGURE 1.4) of a landscape near Steynsburg (Eastern Cape) and answer the following QUESTIONS:

1.4.1 Identify the landforms labelled A, B and C. (3 x 2) (6)

1.4.2 What has caused the difference between landforms B and H? (1 x 2) (2)

1.4.3 Mention the type of mass movement associated with slope elements E and F on the photograph respectively. (2 x 2) (4)

1.4.4 Comment on the economic importance of the landscape in the photograph, by providing TWO examples. (2 x 2) (4)

1.4.5 The area in the foreground (around C) of the photograph experiences soil erosion. What can be done to reduce/control soil erosion? (4 x 1) (4)

- 1.5 Refer to FIGURE 1.5, which illustrates an example of river capture in a region of folded mountains.
- 1.5.1 Account for the fast rate of erosion by the river labelled A on the diagram. (3 x 2) (6)
- 1.5.2 Name the process taking place in the fold mountains at C. Explain the process. (2 x 2) (4)
- 1.5.3 What features would you expect to find in the Tugelariver valley, resulting from river capture in this area? (2 x 2) (4)
- [70]**

QUESTION 2

- 2.1 Indicate whether the following statements are TRUE or FALSE. Choose the correct answer and write only "TRUE or FALSE" next to the QUESTION number (2.1.1 – 2.1.5) for example, 2.1.6 TRUE.
- 2.1.1 The general circulation of the atmosphere is the result of uneven heating and Coriolis force.
- 2.1.2 Generally temperature increases with an increase in altitude.
- 2.1.3 Katabatic winds blow downslope during the day.
- 2.1.4 Superimposed drainage occurs where the river is older than the features it flows over.
- 2.1.5 A flow hydrograph shows the relationship between the amount of discharge and time. (5 x 2) (10)
- 2.2 Study the synoptic weather chart, FIGURE 2.2 in order to answer the following QUESTIONS:
- 2.2.1 Weather station P is experiencing berg wind conditions. Briefly explain how this condition developed in the area. (2 x 1) (2)
- 2.2.2 What effect do the weather conditions mentioned in QUESTION 2.2.1 have on the environment and ecosystems at P and surrounding areas? (2 x 1) (2)
- 2.2.3 How will the weather conditions at P change within the next 24 hours? (2 x 2) (4)
- 2.2.4 With reference to the weather chart, account for the change in weather conditions at P within the next 24 hours. (1 x 1) (1)
- 2.2.5 How will the appearance and position of the weather system X, be influenced if a permanent increase in temperature becomes a reality? (2 x 2) (4)

- 2.3 Study FIGURE 2.3 representing sectional profiles of a river valley and answer the following QUESTIONS:
- 2.3.1 What general topographical term do we give to the features shown at X on the diagram? (1 x 1) (1)
- 2.3.2 Compare the gradient of the river profile at stage 1 with the gradient of stage 3 on the diagram. (2 x 2) (4)
- 2.3.3 In which stage will turbulent and laminar flow respectively occur? (2 x 2) (4)
- 2.3.4 Account for the development of the waterfall and the rapid in stage 1 of the river profile. (1 x 2) (2)
- 2.3.5 With reference to the diagram, name TWO characteristics of stage 2 of the river profile. (2 x 2) (4)
- 2.3.6 Identify the stream channel pattern marked D – E in stage 3. (1 x 1) (1)
- 2.3.7 Of what economic importance is stage 3 for the people of that area? (2 x 2) (4)
- 2.4 FIGURE 2.4 shows human activities that cause air pollution in a coastal town and that contribute to global warming. Study the diagram and answer the following QUESTIONS:
- 2.4.1 Define the concept “global warming”. (1 x 2) (2)
- 2.4.2 Explain how human activities at A and B on the diagram respectively contribute to global warming. (2 x 2) (4)
- 2.4.3 How do the human activities at E on the diagram contribute to reducing global warming in the town? (1 x 2) (2)
- 2.4.4 What impact do the human activities at C and D, respectively have on the pollution dome in the town during the day? (2 x 2) (4)
- 2.4.5 Give THREE examples of how global warming will affect the coastal town within the next decade. (3 x 2) (6)
- 2.5 Study FIGURE 2.5, which shows a landform of the Limpopo Province and answer the following questions:
- 2.5.1 Identify the landform at D on the diagram which developed from a previously intrusive landform. (1 x 2) (2)
- 2.5.2 Did the landform D develop from sedimentary rock or from igneous rock? (1 x 1) (1)
- 2.5.3 Why is landform D now visible above the earth’s surface? (1 x 2) (2)

2.5.4 Landform D could, within time, develop into a tor. Which geomorphologic process is responsible for the development of a tor? (1 x 2) (2)

2.5.5 Landform D is of no agricultural importance to people. Give a reason to support the statement. (1 x 2) (2)

[70]

TOTAL SECTION A: 140

SECTION B: PEOPLE AND PLACES

QUESTION 3 [12.1.2 – 12.1.5] [12.2.1 – 12.2.4] [12.3.1 – 12.3.2]

3.1 Choose the correct term from within the brackets for each of the following definition. Write only the correct term next to the number 3.11 – 3.1.5 e.g. 3.1.6 – zone.

3.1.1 A type of settlement in which primary economic activities are predominantly practiced is a/an ... (urban/rural) settlement.

3.1.2 A person who uses transport to travel to and from work in town on a daily basis is a ... (commuter/hawker)

3.1.3 The establishments in city centre which attract others of similar kind since they benefit from being located close to one another is ... (functional/prestige/functional magnetism)

3.1.4 The settlement that develop illegally on the private or public land on the outside of the city is a ... (zone of decay/squatter settlement)

3.1.5 The type of farming that is characterised by many workers, high productivity in a small area is ... (intensive farming/extensive farming)

(5 x 2) (10)

3.2 Refer to FIGURE 3.2, that shows a village located in the Southern Hemisphere and answer the QUESTIONS that follow:

3.2.1 The location of settlement A and B are influenced by the presence of water in different ways. Give the names of the two settlements. (2 x 2) (4)

3.2.2 By referring to the sketch, indicate which physical factor was predominantly responsible for the establishment of the site at settlement C? (1 x 2) (2)

3.2.3 State the most important consideration for the location of the settlement at D. (1 x 2) (2)

3.3 Refer to the extract below and answer the QUESTIONS that follows:

LAND REFORM

A farmer who lived on the farm since 1915 and has made many improvements to the farm, on which he lived, has been advised to sell his farm to the government because it is part of a land claim. The claim had been lodged by the original residents who were forced to move as a result of the Land Act of 1913. The residents argue that their ancestors were forced off the land and they feel that they have a right to return to their ancestral land. The farmer maintains that he should be allowed to remain on his farm because of the improvements he has made to the farm and his contribution to economy in general.

- 3.3.1 Determine whether the process involved in the above extract is land redistribution or land restitution. Support your choice. (2 x 2) (4)
- 3.3.2 Comment on the impact of the Land Act of 1913 on the original owners who were forced off their land. (2 x 2) (4)
- 3.3.3 If you were a farm owner who lived on the farm since 1915, would you support the process mentioned in QUESTION 3.3.1? Justify your decision. (2 x 2) (4)

3.4 URBAN SETTLEMENT

Refer to FIGURE 3.4 and the accompanying graph to answer QUESTIONS that follows.

- 3.4.1 Identify the land use zone marked X. (1 x 2) (2)
- 3.4.2 Give the term that is used to describe the height of the buildings in urban areas. (1 x 2) (2)
- 3.4.3 Use the graph to determine the highest land price in land-use zone X. (1 x 2) (2)
- 3.4.4 Account for the high land values in land-use zone X. (1 x 2) (2)
- 3.4.5 If you were business entrepreneur who has just bought a plot to build an office complex in land-use X, explain how you would try to cope with such high land values. (1 x 2) (2)

3.5 Read the case study below and answer the questions that follow:

“It is in the evening on Point Road, the infamous road along the beachfront known for its hotspots, gambling, seedy nightclubs, prostitutes and strip shows. This inner city area with its unkempt blocks of flats is home to a busy and vibrant community, who live amongst the crime and grime of the city.

Home time for many, corner shops are buzzing while street traders sell fruit, food and clothes to those heading for taxis or home.

Hooters sound as the minibuses charge through the streets, shouting directions for their next stop. Children and adults move swiftly through an area they call home, fully aware of the possible dangers that surround them. Gangsters and drug dealers hang on street corners and the police make the obligatory drive past to check all is okay.

Flats have washing hanging from the windows, many of them overcrowded with people desperate to get a foothold in the city.

Congolese refugees who survive together in the flats of South Beach greet each other cautiously, trying not to attract a xenophobic reaction from local people”.

- 3.5.1 Name the land-use zone in the city where most conditions as described in the extract can be found. (1 x 2) (2)
- 3.5.2 The conditions described in the extract are normal, accompanied by buildings that are old and in a bad state. Give the term that is used to describe such a problem. (1 x 2) (2)
- 3.5.3 The socio-economic conditions in this extract are also common in the squatter settlements. Clearly differentiate between the land-use zone mentioned in QUESTION 3.5.1 and the squatter camps with reference to building material being used. (2 x 2) (4)
- 3.5.4 If you were a town planner, what measures would you put in place to improve the conditions that prevail in both areas identified in QUESTION 3.5.3 above to ensure the sustainable development of the city. (3 x 2) (6)
- 3.5.5 Explain the expression “xenophobic reaction” in the context of this extract. (1 x 2) (2)
- 3.5.6 Why are the Congolese referred to as “refugees” in this extract? (2 x 2) (4)

[60]

TOTAL SECTION B: 60

GRAND TOTAL: 200