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GRADE 12

GEOGRAPHY P1

NOVEMBER 2012

MARKS: 300

TIME: 3 hours

This question paper consists of 12 pages and a 12-page annexure.

INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FOUR questions.
- 2. Answer ANY THREE questions of 100 marks each.
- 3. For the paragraph style question you may refer to ONE idea which you must discuss in depth OR to different ideas which you must discuss in less depth.
- 4. ALL diagrams are included in the ANNEXURE.
- 5. Number ALL your answers in the CENTRE of the line.
- 6. Leave a line between subsections of questions answered.
- 7. Start each question at the top of a NEW page.
- 8. Number the answers correctly according to the numbering system used in this question paper.
- 9. Do NOT write in the margins of your ANSWER BOOK.
- 10. ENCIRCLE the numbers of the questions that you have answered on the front page of your ANSWER BOOK.
- 11. Where possible, illustrate your answers with labelled diagrams.
- 12. Write clearly and legibly.

SECTION A: CLIMATE AND WEATHER, FLUVIAL PROCESSES AND STRUCTURAL LANDFORMS

Answer at least ONE question from this section.

QUESTION 1

1.3.3

QUESTION 1						
1.1	Refer to FIGURE 1.1 which shows how temperatures over a city and its surrounding areas differ. This is an example of microclimate.					
	1.1.1	Give the concept used to describe the condition sh FIGURE 1.1.	nown in (1 x 2)	(2)		
	1.1.2	State the approximate surface temperature being experience the city centre.	ced over (1 x 2)	(2)		
	1.1.3	Choose the correct word from those given in brackets. We the word next to the question number (1.1.3(a)–1.1.3(c)) ANSWER BOOK.	•			
		(a) Temperature (decreases/increases) outwards from A .				
		(b) Temperature (decreases/increases) upwards from A at	night.			
		(c) Pollution (decreases/increases) the temperature at A .	(3 x 2)	(6)		
1.2	Refer to FIGURE 1.2 showing a river and its tributaries and answer the questions that follow.					
	1.2.1	Give the concept used to describe an area drained by a mand tributaries, as indicated in FIGURE 1.2.	ain river (1 x 2)	(2)		
	1.2.2	Name the drainage pattern shown in the sketch.	(1 x 2)	(2)		
	1.2.3	What is the term used to describe where the river flows ocean as indicated by the letter A ?	into the (1 x 2)	(2)		
	1.2.4	Which letter indicates a tributary?	(1 x 2)	(2)		
	1.2.5	Give the term used to describe a high-lying area that separa streams in the same drainage basin, as indicated by the lett		(2)		
1.3	Study the follow.	e synoptic weather map (FIGURE 1.3) and answer the question	ons that			
	1.3.1	Identify the low-pressure system labelled A.	(1 x 2)	(2)		
	1.3.2	Explain why pressure system A is referred to as a low-p cell.	ressure (1 x 2)	(2)		

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What evidence is there on the map that it is winter?

(4)

 (2×2)

 1.3.4 Why are the weather conditions being experienced alconomic coast of South Africa ideal for outdoor activities? 1.3.5 Give a reason for the overcast conditions at Marion Islanda 	(1 x 2) nd. (1 x 2) we weather of	(2) (2)
	weather of	(2)
1.3.6 Refer to weather system B .		
(a) State ONE way in which it is likely to affect the Cape Town in the next 24 hours.	(1 x 2)	(2)
(b) Why do these cyclones generally move in a direction?	an easterly (1 x 2)	(2)
(c) Comment on the impact that these cyclones w tourism in the South-western Cape.	vill have on (1 x 2)	(2)
1.4 Refer to the newspaper article (FIGURE 1.4) titled 'SA's penguin and answer the questions that follow.	ns on thin ice',	
1.4.1 What does global climate change mean?	(1 x 2)	(2)
1.4.2 Give ONE reason for the rise in sea temperatures.	(1 x 2)	(2)
1.4.3 Besides the rise in temperature, state TWO factors i scientists as reasons for the decreasing penguin number	•	(4)
1.4.4 The impact of climate change is a concern for all living Africa. In approximately 12 lines, suggest some me need to be put in place to address this problem.		
	(6 x 2)	(12)
1.5 Refer to FIGURE 1.5 illustrating river capture.		
1.5.1 Define the term <i>river capture</i> .	(1 x 2)	(2)
1.5.2 River C is involved in active headward erosion.		
(a) What does headward erosion mean?	(1 x 2)	(2)
(b) Give a possible reason for headward erosion taking	y place. (1 x 2)	(2)
1.5.3 Will river capture impact on the flow characteristics of r source?	river B at its (1 x 2)	(2)
1.5.4 Name the features labelled D and E that result from rive	er capture. (2 x 2)	(4)
1.5.5 River capture brings about changes in both captor as streams. Explain (approximately 12 lines) some of the changes that will occur in captor and captured rivers result.	the physical	(12)

1.0		that follow.					
	1.6.1	What type of river profile is shown here?	(1 x 2)	(2)			
	1.6.2	Name TWO dimensions (shapes) of a river that can be illustrated river profile.	e seen in the (2 x 2)	(4)			
	1.6.3	Name the dominant (main) type of erosion taking plactualley.	e in the river (1 x 2)	(2)			
	1.6.4	The river valley shows evidence of rejuvenation.					
		(a) What does rejuvenation mean?	(1 x 2)	(2)			

Defer to FICURE 4.6 which shows a river profile and answer the guestions

(b) Give TWO pieces of evidence from FIGURE 1.6 to support the statement that rejuvenation has occurred. (2 x 2)

1.6.5 Explain how and why the dimensions (shapes) of the river valley, illustrated in FIGURE 1.6, will change once rejuvenation occurs.

(2 x 2) (4) [100]

QUESTION 2

- 2.1 Refer to FIGURE 2.1 that shows factors that influence the weather and climate of South Africa. Complete the following sentences by filling in the missing word. Write down the word next to the question number (2.1.1–2.1.5).
 - 2.1.1 The ... ocean current keeps the east coast of South Africa warmer than the west coast.
 - 2.1.2 The ... causes places in the interior of the country to experience lower temperatures due to its higher altitude.
 - 2.1.3 The position of South Africa in terms of its ... generally results in stable conditions.
 - 2.1.4 The steep slopes of the ... prevent moisture from reaching the interior in winter.
 - 2.1.5 The ... ocean current contributes to dry, arid conditions along the west coast of South Africa. (5 x 2) (10)

2.2 Study FIGURE 2.2 which represents a typical slope. Match the statements below with the labels on the diagram. 2.2.1 This slope element is convex. 2.2.2 Rills and gullies are common on this slope. 2.2.3 Soil creep is common on this slope element. 2.2.4 This slope element is referred to as a constant slope. 2.2.5 The slope element is vertical. (5×2) (10)2.3 Study FIGURE 2.3 which shows the frequency of occurrence of tropical cyclones. 2.3.1 Name the ocean with the highest number of tropical cyclones. (1×2) (2)2.3.2 Explain why there is a lack of tropical cyclones along the equator (zero degree latitude). (1×2) (2)2.3.3 What is the relationship between the occurrence of tropical cyclones and a sea temperature that exceeds 26,5 °C? (1×2) (2)2.3.4 Give TWO reasons why tropical cyclones do not occur in the area marked A. (2×2) (4)2.3.5 Explain why tropical cyclones dissipate when they move overland. (2×2) (4)2.3.6 State the impact that these tropical cyclones will have on the economy of countries that lie in their path. (3×2) (6)2.4 Refer to FIGURE 2.4 that is a cartoon about drought. 2.4.1 Explain the term *drought*. (1×2) (2)2.4.2 What is the message of the statement: 'We won't be able to grow to this size anymore'? (4) (2×2) 2.4.3 Why is maize farming especially risky for small-scale (subsistence) farmers? (1×2) (2)2.4.4 Africa urgently needs to address the problem of droughts. Make suggestions (approximately 12 lines) on how to sustainably reduce the impact of droughts. (6×2) (12)

	•	
Ν	S	C

2.5	FIGURE 2.5 shows landform features that result from canyon landscapes.				
	2.5.1	Identify the features labelled A and B .	(2 x 2)	(4)	
	2.5.2	Identify the underlying rock strata of both landforms ${\bf A}$ and ${\bf E}$ landscape.	3 on the (1 x 2)	(2)	
	2.5.3	State ONE difference between features A and B .	(1 x 2)	(2)	
	2.5.4	What is the main process of erosion that takes place at fea and B respectively?	atures A (2 x 2)	(4)	
	2.5.5	Describe ONE characteristic of a canyon landscape eviden diagram.	t on the (1 x 2)	(2)	
	2.5.6	Discuss how the landscape shown in FIGURE 2.5 can be humans. You may refer to positive and/or negative impacts.	•	(6)	
2.6	Refer to F	IGURE 2.6 which is a cartoon showing river pollution.			
	2.6.1	Name TWO ways in which an urban area contributes pollution of rivers.	to the (2 x 2)	(4)	
	2.6.2	Suggest TWO measures that can be put in place to reduce pollution from urban areas.	e water (2 x 2)	(4)	

SECTION B: PEOPLE AND PLACES: RURAL AND URBAN SETTLEMENTS, PEOPLE AND THEIR NEEDS

impact that human activities have on rivers.

Write a paragraph (approximately 12 lines) assessing the negative

 (6×2)

(12) **[100]**

Answer at least ONE question from this section.

QUESTION 3

2.6.3

3.1 Refer to FIGURE 3.1 which shows a variety of settlements and land-use zones. Match the letters **A** to **E** in the FIGURE with the descriptions (3.1.1–3.1.5) below.

3.1.1 Informal settlement

3.1.2 Dispersed rural settlement

3.1.3 Traditional settlement

3.1.4 Central Business District (CBD)

3.1.5 Nucleated rural settlement (5 x 2) (10)

3.2 Choose a description from COLUMN B that matches a term in COLUMN A. Write only the letter (A–F) next to the question number (3.2.1–3.2.5) in your ANSWER BOOK.

	COLUMN A	COLUMN B		
3.2.1	Agglomeration	A developing industries in previously neglected and underdeveloped		
3.2.2	Industrial decentralisation	areas		
3.2.3	Spatial Development Initiatives (SDIs)	B no barriers to the import and export of goods and services		
3.2.4	Free trade	C concentration of industries close to each other		
3.2.5	Trade	D the exchange of goods and services for profit		
		E industries that move away from core areas		
		F industries that are built to encourage economic growth by attracting new investments		

(5 x 2) (10)

(2)

(2)

3.3 Study FIGURE 3.3 which shows land-use in an urban area.

3.3.1	Describe ONE characteristic of the CBD.	(1 x 2) (2)
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3.3.2 State ONE factor that would have influenced the location of the regional shopping centre. (1 x 2)

3.3.3 Give a brief description of the rural-urban fringe. (1 x 2)

3.3.4 Recreational facilities are commonly found in the rural-urban fringe.

(a) Give evidence from the diagram to support the statement above. (1 x 2)

(b) Why are the recreational facilities mentioned in QUESTION 3.3.4 found in the rural-urban fringe? (2 x 2) (4)

3.3.5 Describe ONE way in which industries located in the rural-urban fringe impact negatively on the environment. (1 x 2)

3.3.6 Discuss TWO plans that the local government (city council) can use to correct the damage caused by these industries. (2 x 2) (4)

3.3.7 Name ONE way in which the green-belt land and the Oak Green Woods Country Park can play a role in the sustainable development of the rural-urban fringe. (1 x 2)

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[100]

QUESTION 4

4.1 Match the sketches below with the descriptions provided. Write down only the letter (A-F) next to the question number (4.1.1–4.1.5) in your ANSWER BOOK.

	SKETCHES		DESCRIPTIONS
4.1.1		Α	star-shaped settlement
4.1.2		В	settlements that have a semi-circular shape
4.1.3	Buildings	С	has many stop streets and robots
4.1.4	Sea CBD CBD	D	allows for the smooth flow of traffic
4.1.5	Road CBD CBD	Ε	urban profile
		F	cross-shaped settlement

(5 x 2) (10)

- 4.2 Choose the correct word(s) from those given in brackets. Write down only the word(s) next to the question number (4.2.1–4.2.5) in your ANSWER BOOK.
 - 4.2.1 (Primary/Secondary) activities refer to the extraction of raw materials from the earth.
 - 4.2.2 (Commercial/Subsistence) farming is concerned with cultivation for domestic use.
 - 4.2.3 The balance of (trade/payment) is the financial statement showing the value of a country's transactions with the rest of the world.
 - 4.2.4 (Quaternary/Tertiary) activities involve high-order services, such as research.
 - 4.2.5 The value of goods and services produced in a country a year is known as the (gross national/gross domestic) product.

(5 x 2) (10)

4.3 Study the table below which illustrates the changing distribution of the world's urban population over the last 60 years.

YEAR	URBAN POF	TOTAL	
	DEVELOPING COUNTRIES	DEVELOPED COUNTRIES	POPULATION (MILLIONS)
1950	38,4	61,6	730
1970	48,1	51,9	1 350
1990	63,4	36,6	2 380
2010 (estimate)	75,1	24,9	3 030

[Source: Google]

- 4.3.1 (a) Comment on the trend of the urban population percentage for developed countries over the past 60 years. (1 x 2)
 - (b) Give a possible explanation for the trend mentioned in QUESTION 4.3.1(a). (2 x 2) (4)
- 4.3.2 What is the term used to describe the trend where an increasing number of people live in urban areas? (1 x 2)
- 4.3.3 Discuss TWO economic push factors that encourage people to leave rural areas. (2 x 2) (4)
- 4.3.4 The increase in the urban population percentage in developing countries has created deterioration in city centres (urban blight). In a paragraph (approximately 12 lines) suggest ways in which the local government (city council) can solve the problem. (6 x 2) (12)
- 4.4 FIGURE 4.4 highlights some of the ways in which pollution occurs on the earth's surface.
 - 4.4.1 Identify ONE cause of air pollution in the diagram. (1 x 2)
 - 4.4.2 Suggest ONE effect of air pollution and its likely impact, evident on the diagram. (2 x 2) (4)
 - 4.4.3 Informal settlements are common on the banks of rivers in South Africa. These informal settlements also contribute to pollution on the earth's surface.
 - (a) What are informal settlements? (1 x 2)
 - (b) Why do informal settlements develop on the banks of rivers? (1 x 2)
 - (c) State ONE problem (excluding pollution) that these settlements located on the river banks cause. (1 x 2)
 - (d) Discuss TWO methods used in South Africa to reduce the number of informal settlements. (2 x 2) (4)

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				[100]		
	4.6.6	The location of industrial areas is influenced by a nur factors. Discuss (in approximately 12 lines) the role of tr and labour in developing Durban as an industrial area.		(12)		
	4.6.5	Evaluate the importance of industrial activity for the econ KwaZulu-Natal.	nomy of (3 x 2)	(6)		
	4.6.4	State why this area is ideal for the location of oil refineries.	(1 x 2)	(2)		
	4.6.3	Why is the location of the industries seen to be a social injur	stice? (1 x 2)	(2)		
	4.6.2	Why can the Durban harbour be described as a break point?	(-of-bulk (1 x 2)	(2)		
	4.6.1	Most of the industries located close to the harbour are industries. What are <i>bridge industries</i> ?	e bridge (1 x 2)	(2)		
4.6	FIGURE area.	4.6, an article and map, is based on industrial activity in the	Durban			
	4.5.4	The Orange River Project was also developed to slow rural-urban migration. Explain the role of the Orange River in slowing down rural-urban migration.		(4)		
	4.5.3	Discuss the positive impact that the Orange River Project economic development in the Eastern Cape.	had on (3 x 2)	(6)		
	4.5.2	Into which river in the Eastern Cape does the water of the River finally flow?	Orange (1 x 2)	(2)		
	4.5.1	Name ONE dam that plays an important role in transferring from the Orange River to the Eastern Cape.	ng water (1 x 2)	(2)		
4.5	Refer to FIGURE 4.5 based on the Orange River Project. One of the reason why this project was developed, was to provide the drought-prone East Cape with more water resources.					

Geography/P1