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## KWAZULU-NATAL PROVINCE

EDUCATION REPUBLIC OF SOUTH AFRICA





# GEOGRAPHY

**COMMON TEST** 

**MARCH 2022** 

MARKS: 60

11

TIME: 1 hour

This question paper consists of 7 pages.

Please Turn Over

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NSC

#### INSTRUCTIONS

1. The paper consists of **TWO** QUESTIONS:

QUESTION 1: CLIMATE AND WEATHER

QUESTION 2: GEOMORPHOLOGY

- 2. Write neatly and legibly.
- 3. Number your questions according to the question paper.
- 4. Answer ALL questions.

Geography

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#### **QUESTION 1: CLIMATE AND WEATHER**

1.1 Refer to the South African synoptic weather map. (The letters **A**, **B**, **C** and **D** have been printed on the synoptic weather map)



1.1.1	Give ONE piece of evidence from the synoptic weather map that indicates that the map represents a summer situation.	(1 x 1)(1)
1.1.2	Describe the pressure gradient at A.	(1 x 1) (1)
1.1.3	Identify the pressure cells <b>B</b> and <b>C</b> respectively.	(2 x 1) (2)
1.1.4	Name the front labelled D.	(1 x 1) (1)
1.1.5	State the wind speed at Durban.	(1 x 1) (1)
		[6]

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1.3 Refer to the heat island and pollution dome over an urban settlement.



		[30]
1.3	.6 Suggest ONE way in which we can reduce the environmental problem stated in QUESTION 1.3.4.	(1 x 2) (2)
1.3	.5 During night-time the pollution dome is much lower than during day-time. Provide ONE reason for this occurence.	(1 x 1) (1)
1.3	.4 State the environmental problem resulting from a pollution dome that is situated closer to the earth's surface.	(1 x 1)(1)
1.3	.3 Explain how building material influences the high temperatures in the city.	(1 x 2) (2)
1.3	2 Which part of the city is experiencing the highest temperature?	(1 x 1)(1)
1.3	1 Explain what is meant by the term heat island.	(1 x 2) (2)

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NSC

#### **QUESTION 2: GEOMORPHOLOGY**

2.1 Choose a term from COLUMN B that matches the geomorphological description in COLUMN A. Write only the letter (A - G) next to the question number (2.1.1 - 2.1.6) in the ANSWER BOOK, for example 2.1.7 H.

A.	
<b>^</b> .	Watertable
B.	Watershed
C.	Ground water
D.	Surface run off
E.	Confluence
F.	Interfluve
G.	Catchment area
	C. D. E. F.

### 2.2 Refer to the drainage patterns.



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2.2.1	Define the concept drainage pattern.	(1 x 2)(2)
2.2.2	Describe the trellis drainage pattern.	(1 x 2)(2)
2.2.3	Explain ONE visible difference between the tributaries of a dendritic and <b>a</b> trellis drainage pattern.	(2 x 2) (4)
2.2.4	Suggest why a dendritic drainage pattern is more suitable for farming.	(2 x 2) (4) <b>[12]</b>
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#### 2.3 Refer to river valleys from source to mouth.



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2.3.1	In which course is the mouth of the river.	(1 x 1) (1)
2.3.2	State the lowest level to which a river can erode.	(1 × 1)(1)
2.3.3	Identify TWO elements of the cross-profile that changed from the upper to the lower course.	(2 × 1) (2)
2.3.4	Differentiate between the fluvial processes that shaped the cross-profile of the upper course and lower course of the river.	(2 x 2) (4)
2.3.5	Suggest why the shape of the cross-profile in the upper course of the river will make it the most suitable place to build a dam.	(2 x 2) (4)
	가슴이 있는 것은	[12]
		TOTAL: 30

GRAND TOTAL: 60