



LIMPOPO PROVINCE

NATIONAL

SENIOR CERTIFICATE

GRADE 12

GEOGRAPHY

CONTROLLED TEST

TERM 1 2022

MARKS: 60

DURATION: $1\frac{1}{2}$ HOURS

This Question Paper consists of EIGHT(8) pages

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INSTRUCTIONS

- 1. The question paper consists of TWO questions.
- 2. ALL diagrams are included in the QUESTION PAPER.
- 3. Where possible, illustrate your answers with labelled diagrams.
- 4. Leave a line between subsections answered.
- 5. Start EACH question at the top of a NEW page.
- 6. Number your answers correctly according to the numbering system used in this question paper.
- 7. Do NOT write in the margins of the ANSWER BOOK.
- 8. Write neatly and legibly.

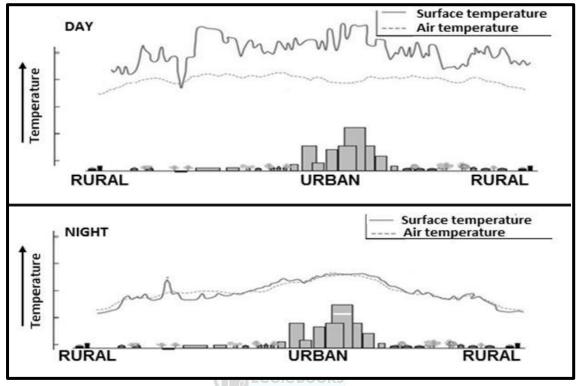


GeographyP1

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QUESTION 1 CLIMATE AND WEATHER

FIGURE 1.1. Urban Heat Island effects during the Day and during the Night

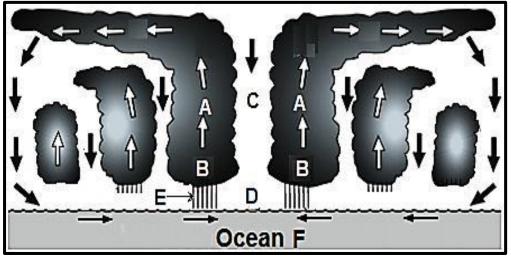


Source: Geography P1May-June 2021

- **1.1.** Mention the time of day best described by each of the statements below. Simply write Night or Day next to the question number.
 - 1.1.1. Reflects the highest temperatures in an urban heat island.
 - 1.1.2. Artificial heat generation is at its lowest.
 - 1.1.3. Increased human discomfort due to higher temperature.
 - 1.1.4. Limited multiple reflection of heat.
 - 1.1.5. Pollution is more concentrated.

(5 x 1) (5)

1.2. Refer to **Figure 1.2**. a cross section of a tropical cyclone. Choose the correct word(s) from those given in brackets to complete the statements. Write only the word(s) next to the question numbers (1.2.1. - 1.2.7)



Source: Google: Climate

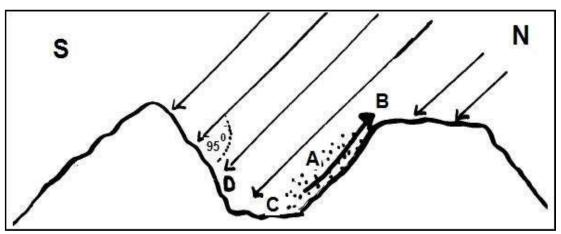
- 1.2.1 Cloud **A** is a (cumulonimbus/ cumulus) cloud.
- 1.2.2. The updraft at **B** are caused by (convection/ advection) currents.
- 1.2.3. Area C is named the (eye/ eye wall).
- 1.2.4. The atmospheric condition experienced at **C** is (stable/ unstable).
- 1.2.5. **D** indicates an area of (divergence/ convergence).
- 1.2.6. E will experience (light rain / thunderstorms).
- 1.2.7. Ocean F is likely (warm/cold).

(7 x 1) (7)

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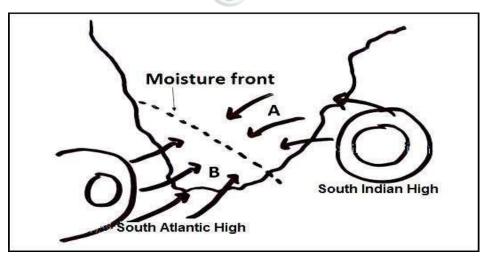
1.3. Refer to the sketch in **Figure 1.3** which shows aspect in a valley in the Southern Hemisphere and answer the questions that follow:



Examiner own sketch

1.3.1. Define the term <i>aspec</i> t.	(1 x 2) (2)
1.3.2. What evidence suggests that this valley is situated in the	
Southern hemisphere?	(1 x 1) (1)
1.3.3. Explain why area A is referred to as the shadow zone.	(1 x 2) (2)
1.3.4. Explain how wind B will develop during the day.	(1 x 2) (2)

1.4. Figure 1.4: Sub-tropical High pressure cells



	[30]
1.4.3, Explain in a paragraph of EIGHT lines the positive impact of line thunderstorms on farmers in the interior.	(4 x 2) (8)
1.4.2. State moisture contents of the winds at A.	(1 x 1) (1)
1.4.1. Define the term <i>moisture front</i> .	(1 x 2) (2)

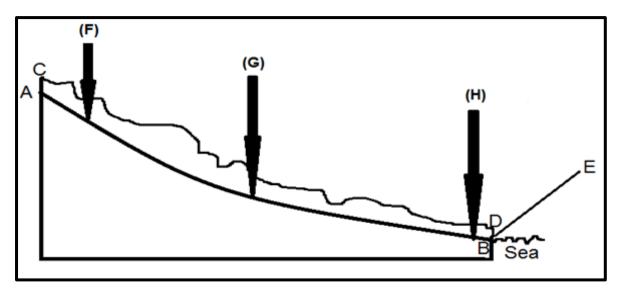
QUESTION 2 GEOMORPHOLOGY

2.1. Choose a term from column B that matches the geomorphological description in column A. Write only the letter (A-I) next to the question number (2.1.1-2.1.8).

COLUMN B
A. Watershed
B. Aquiclude
C. Rapids
D. Aquifer
E. Water table
F. Confluence
G. Tributary

(5 x 1) (5)

2.2. Refer to FIGURE 2.2 which shows two river profiles **A** – **B**, and **C** - **D**.

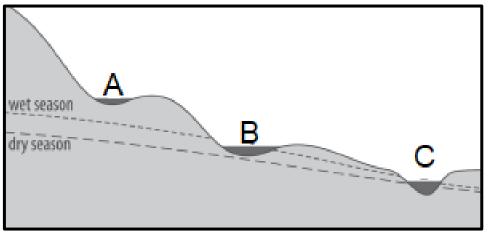


- 2.2.1 Which profile shows a graded profile? (1 x 1) (1)
- 2.2.2 State one characteristic to support your answer in 2.2.1 (1 x 1) (1)
- 2.2.3. Name the temporary base level on the diagram. (1.x 1) (1)
- 2.2.4 Name the profile with the irregular shape in the diagram. $(1 \times 1)(1)$
- 2.2.5 List most important process associated with the diagram. (1x 1) (1)

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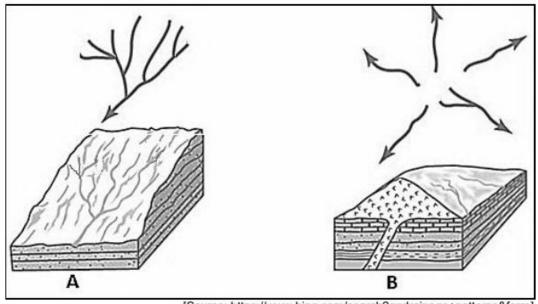
2.3. Figure 2.3 shows types of rivers



Adapted from Cambridge Study and Master; Support pack grade 12: Geography Geomorphology

- 2.3.1. Match A, B or C to a *permanent* and *an episodic* river. (2 x 1) (2)
- 2.3.2. Describe any physical factor that will influence the discharge (stream flow) of an episodic river. (1 x 2) (2)
- 2.3.5. Discuss in a paragraph of approximately EIGHT lines the impact of deforestation (vegetation removal) on a permanent river. (4 x 2) (8)

2.4. FIGURE 2.4: DRAINAGE PATTERNS



[Source: https://www.bing.com/search?q=drainage+patterns&form]

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2.4.1. Identify drainage pattern A a	and B.	(2 x 1) (2)
2.4.2. Give a characteristic of drain	nage pattern A evident in F	IGURE 2.4. (1 x 2) (2)
2.4.3. Explain how the characteris result in the formation of dra	, ,	structure (2 x 2) (4)
		[30]

[TOTAL: 60 MARKS]



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