

Victorian Certificate of Education 2023

SUPFRVISOR	TO ATTACH	PROCESSING	I ARFI HERE

				Letter
STUDENT NUMBER				

GEOGRAPHY

Written examination

Thursday 9 November 2023

Reading time: 2.00 pm to 2.15 pm (15 minutes) Writing time: 2.15 pm to 4.15 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

Number of questions	Number of questions to be answered	Number of marks
10	10	80

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners, rulers, coloured pencils, water-based pens and markers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or correction fluid/tape.
- No calculator is allowed in this examination.

Materials supplied

- Question and answer book of 15 pages, including assessment criteria for extended-answer questions on page 15
- Data book
- Additional space is available at the end of the book if you need extra space to complete an answer.

Instructions

- Write your **student number** in the space provided above on this page.
- All written responses must be in English.

At the end of the examination

• You may keep the data book.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

THIS PAGE IS BLANK

Instructions

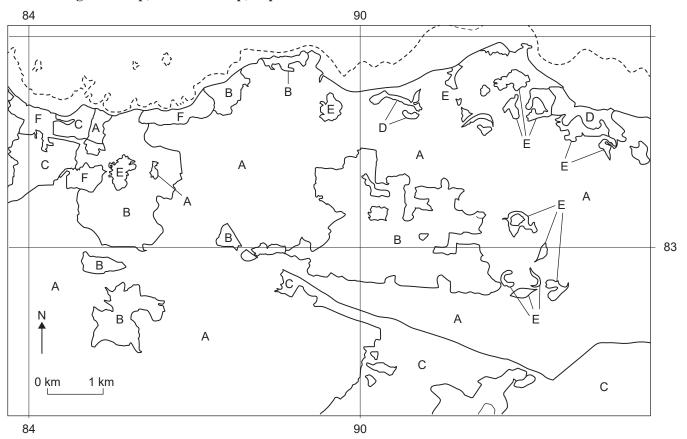
Answer all questions in the spaces provided. Refer to the data book as indicated.

Use Figure 1 on pages 2 and 3 of the data book when responding to Question 1.

Question 1 (4 marks)

Before 1950, the area of Papua New Guinea shown in Figure 1 was largely tropical rainforest as well as some mangrove and wetland areas. Local farming produced secondary growth forest but there were no commercial plantation areas. Figure 1a dates from 1973 and includes the expanding town of Kimbe.

Land Categories Map, Du Faure map, Papua New Guinea



Source: adapted from Papua New Guinea, 1:50 000 topographic survey, Central Mapping Bureau, Port Moresby, trove.nla.gov.au

a.	Which letter on the Land Categories Map represents a change in land cover from tropical rainforest to commercial plantation?			

Which letter on the Land Categories Map represents a change in land cover from tropical rainforest to secondary growth?

	The urban area of Kimbe is expanding into map grid square 8584.	
	Which is the main land cover that will change as a result?	1 mark
	A proposal to expand commercial plantations into the map area of grid square 9485 could be limited by swamp, land subject to inundation, open water and tropical rainforest.	-
	Name one other potential limitation in grid square 9485 shown on Figure 1a.	1 mark
Ш	estion 2 (12 marks)	-
	Explain two environmental impacts resulting from the process of deforestation at one selected location that you have studied this year. Do not use the map area of Figure 1a from Question 1.	6 marks
		-
		-
		-
		-
		_
		-
		-

on selected in part a.		
		-
		_
		_
		_
		_
		_

Question 3 (10 marks) Discuss the impacts of melting ice sheets and glaciers on economic activity and social conditions at a selected location you have studied this year.		

Question 4 (4 marks)				
Describe a local response to the impacts discussed in Question 3, on either economic activity or social conditions.				

Question 5 (10 marks)

Evaluate how land use cha egion surrounding your fic	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	e 5
Evaluate how land use cha egion surrounding your fi	nge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fi	nge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fid	nge, or predicted change, has impacted, or is likely to impact, theladwork area.	
Evaluate how land use cha egion surrounding your fi	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fi	nge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha region surrounding your fid	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fi	nge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fid	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fi	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha egion surrounding your fi	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha	inge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha	nge, or predicted change, has impacted, or is likely to impact, the eldwork area.	
Evaluate how land use cha	nge, or predicted change, has impacted, or is likely to impact, theldwork area.	

Use Figure 2 on page 4 of the data book when responding to Question 6.

Question 6 (10 marks)

What are the implications of the total fertility rates in the 21st century for the future structure of population within the following countries?

Country A	5 mar
Country B	5 mai

Use Figure 3 on pages 6 and 7 of the data book when responding to Question 7.

Question 7 (4 marks)

Background information

Buenos Aires is Argentina's largest urban area, with an estimated 15.4 million residents in 2023. The growth of its informal settlements has resulted from rural-to-urban migration as well as intra-urban movement. Informal settlements can also be referred to as squatter settlements, slum cities, shanty towns and favelas, depending on their location.

Describe the spatial distribution of Buenos Aires' informal settlements.		

Question 8 (6 marks)				
Explain the interconnection between rural-to-urban migration and the resulting informal settlements that occur globally. Do not use the example of Buenos Aires from Question 7.				

Question	9	(10)	marks)

Identify a country with population strategies that have been developed in response to issues relating to its ageing population.				
Apply an appropriate criterion to evaluate the effectiveness of these strategies.				

Question 10 (10 marks)

Identify a country with a growing population. It must be a different country from the one selected for Question 9.

Identify a current demographic issue resulting from this growing population.	
Discuss the causes of this issue with specific reference to cultural and economic factors.	8
•	
	_

Extra space for responses

Clearly number all responses in this space.	
	_
	_
	_
	_
	_
	_

An answer book is available from the supervisor if you need extra space to complete an answer. Please ensure you write your **student number** in the space provided on the front cover of the answer book. **At the end of the examination, place the answer book inside the front cover of this question and answer book.**

Assessment criteria for extended-answer questions

The extended-answer questions will be assessed against the following criteria, as appropriate:

- · application of geographical knowledge and understanding
- demonstration of geographical skills
- description and application of key geographical concepts
- interpretation and analysis of data and other geographical information



Victorian Certificate of Education 2023

GEOGRAPHYWritten examination

Thursday 9 November 2023

Reading time: 2.00 pm to 2.15 pm (15 minutes) Writing time: 2.15 pm to 4.15 pm (2 hours)

DATA BOOK

Instructions

A question and answer book is provided with this data book.

Refer to the data in this book for each question as indicated in the question and answer book.

The data contained in this book is drawn from real-world case studies.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

Figure 1 Land cover change

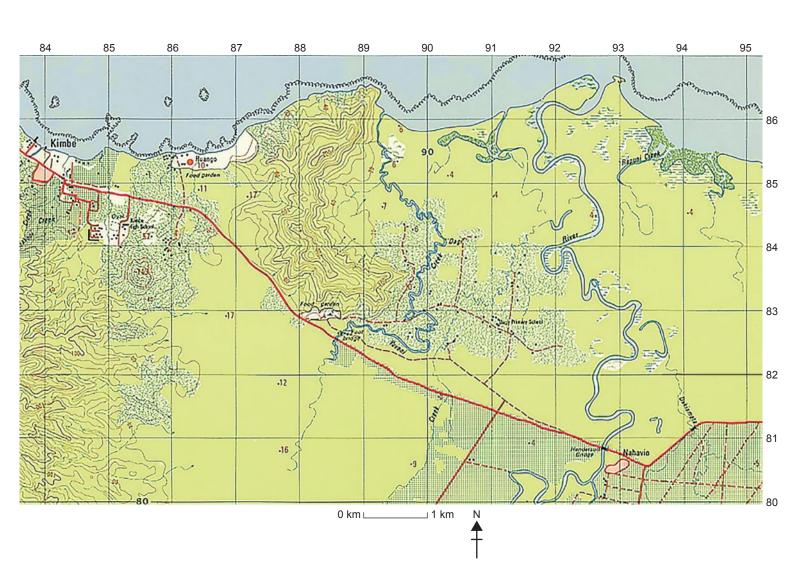
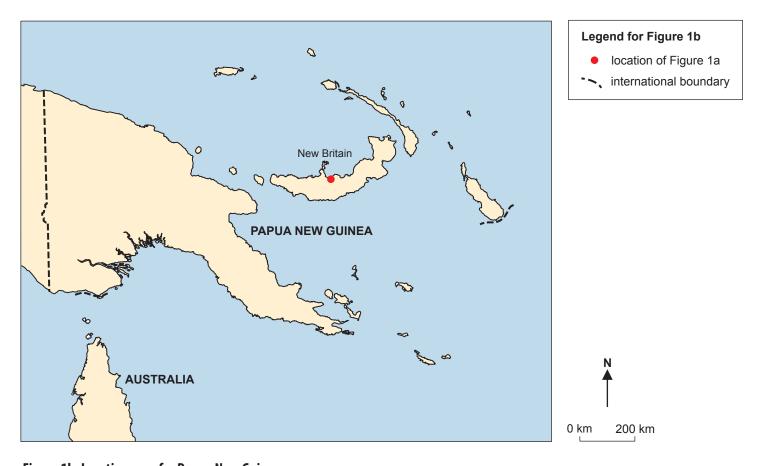


Figure 1a: Extract from Du Faure topographic map, 1:50 000, Papua New Guinea, 1973

Sealed road	Food garden H AP RH PO C S PS FS A 305 BM·306 400 · 220	Tree swamp; Grass swamp	
-------------	---	-------------------------	--

Source: adapted from Papua New Guinea, 1:50 000 topographic survey, Central Mapping Bureau, Port Moresby, <trove.nla.gov.au>



3

Figure 1b: Location map for Papua New Guinea

Figure 2 | Human population

	COUNTRY A		COUNTRY B		
Year	Total Fertility Rate	Average Life Expectancy	Total Fertility Rate	Average Life Expectancy	
1960	3.0	66.86	6.9	38.03	
2000	1.4	73.47	6.6	51.86	
2005	1.2	74.98	6.0	55.80	
2010	1.4	76.20	5.2	60.93	
2015	1.3	77.67	4.5	64.61	
2020	1.4	78.78	4.2	66.71	
2022	1.4	79.11	3.99	67.44	

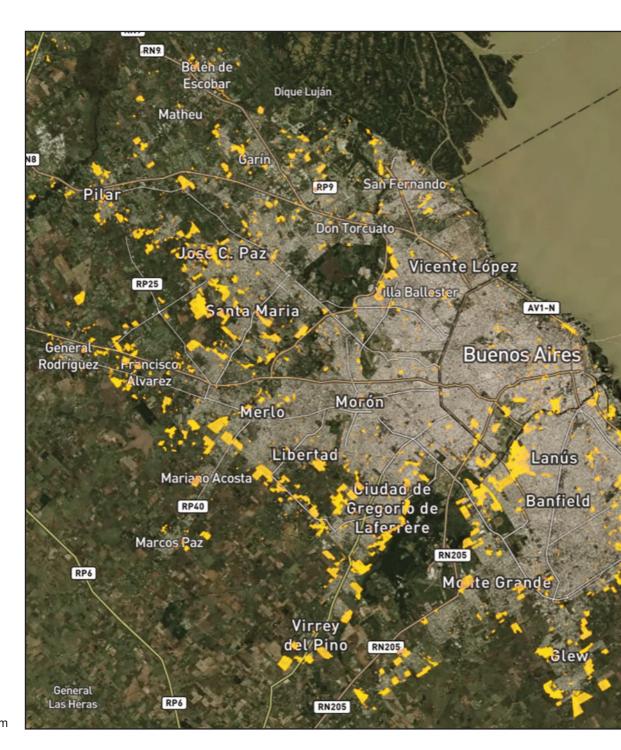
Figure 2: Demographic indicators of Country A and Country B

Source: United Nations World Population Prospects; World Bank data indicators

CONTINUED OVER PAGE

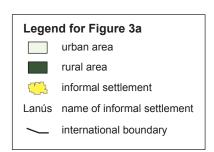
5

TURN OVER



_ 10 km 0 km ∟

Figure 3a: Satellite image of Buenos Aires, Argentina





Source: Dymaxion Labs, 'Detecting Informal Settlements using Satellite Imagery and Convolutional Neural Networks', medium.com,

blog.goodaudience.com>, original: Dymaxion Labs (https://ap-latam.dymaxionlabs.com/en/map?id=argentina-buenos_aires)



Figure 3b: Location map for Buenos Aires, Argentina

