

Victorian Certificate of Education 2021

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

				Letter	
STUDENT NUMBER					

GEOGRAPHY

Written examination

Friday 12 November 2021

Reading time: 3.00 pm to 3.15 pm (15 minutes) Writing time: 3.15 pm to 5.15 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

Number of questions	Number of questions to be answered	Number of marks
8	8	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 12 pages
- 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.

Instructions

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

Question	1	(12)	marks)
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the space below, draw a sketch map of your selected area of fieldwork. Include a legend to by at least two significant geographical characteristics before land use change occurred or			
is likely to occur.	4 mark		

b.	Annotate the sketch map in part a. to identify the location of land use change that occurred or is likely to occur at your selected area of fieldwork.	2 marks
c.	Describe either one impact on the environment or one impact on the social conditions that resulted or could result from the land use change identified in part b .	6 marks

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

Define the process of desertification.	2 n
There is a strong spatial association between the areas of degraded lands in 1990 an areas desertified in 2018.	d the
Evaluate this statement.	6 r

Question 3 (10 marks)
Using an appropriate criterion, evaluate the effectiveness or likely effectiveness of a global response to the impacts of deforestation.

Question 4 (10 marks)

sheets for economic activity.		5 r
With reference to a selected locati	on explain the significance of melting glaciers and ice	
sheets for the environment. This n	on, explain the significance of melting glaciers and ice nay be the same location as in part a. or it may be a	5 r
sheets for the environment. This n	on, explain the significance of melting glaciers and ice nay be the same location as in part a. or it may be a	5 r
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Question 5 (10 marks)

A demographic	dividend is a	a boost in ecc	nomic pr	oductivity	that oc	ccurs when	there are	growing	numbers	of
people in the w	orkforce rela	tive to the nu	mber of c	dependants						

ferent stages of the Demographic Transition Model. In your response, refer to specific examples.					

Use Figure 2 on pages 4 and 5 of the data book when responding to Question 6.

Describe Bangladesh's positions relative to the world averages for 1990 and 2020.	4 ma
Compare Bangladesh's positions described in part a. to Afghanistan's positions.	4 m

on the total fertility rate.		

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

Discuss the extent to which the data in Figure 3 supports Malthusian theory about population and
sustainability.

	_
	_
	_
Describe either two economic factors or two social factors that contribute to the issue outlined in part a .	— 6 m
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	_
	_
	_
	_
	_

Extra	space	for	responses	5
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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.**





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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 current 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

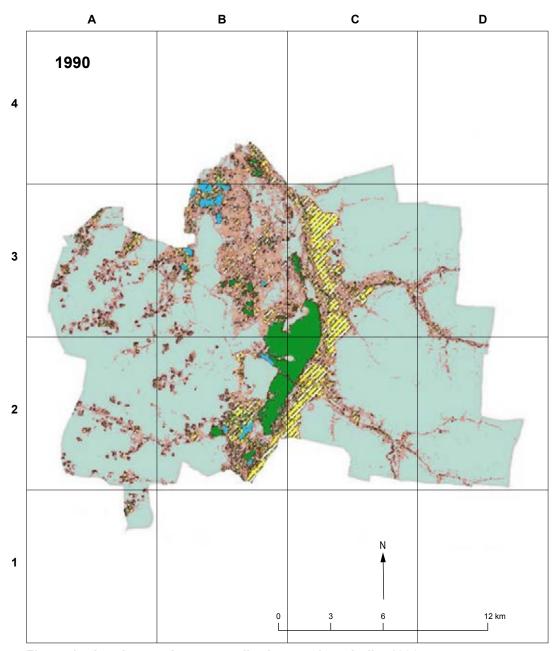


Figure 1a: Land cover Anantapur district, southern India, 1990

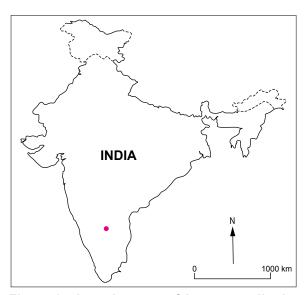


Figure 1c: Location map of Anantapur district

Anantapur district political boundary disputed boundary

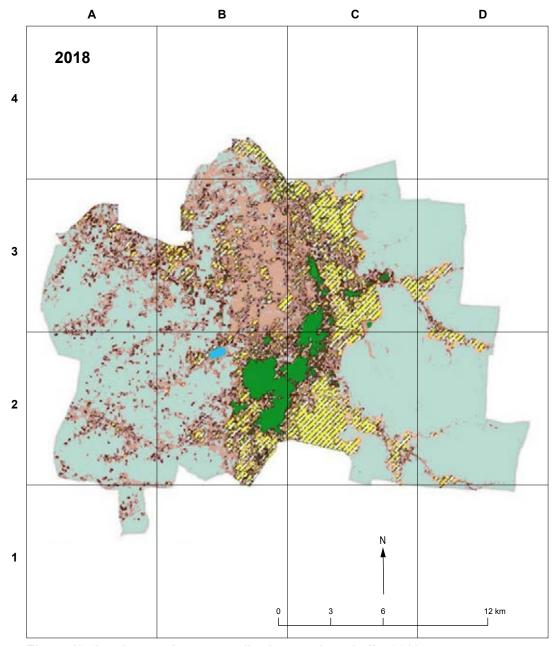
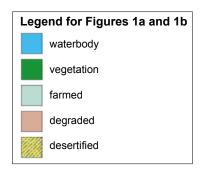


Figure 1b: Land cover Anantapur district, southern India, 2018



Source (Figures 1a, 1b and 1c): adapted from B Pradeep Kumar et al., 'Identification of land degradation hotspots in semiarid region of Anantapur district, Southern India, using geospatial modeling approaches', *Modeling Earth Systems and Environment*, vol. 6, issue 3, 6 May 2020, p. 1850

Figure 2 | Human population

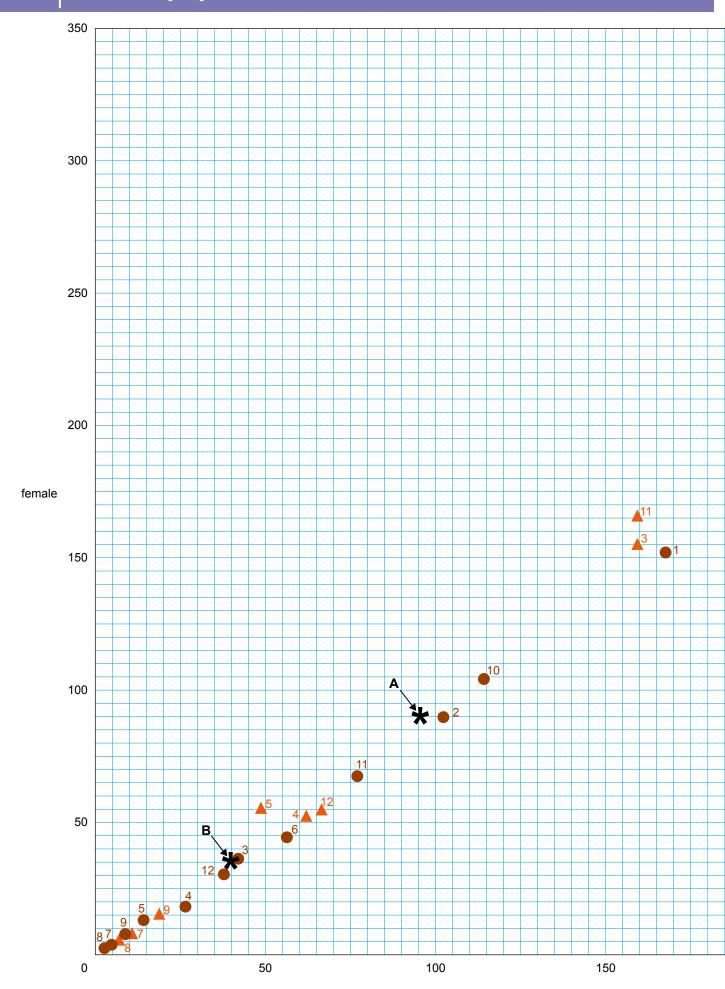
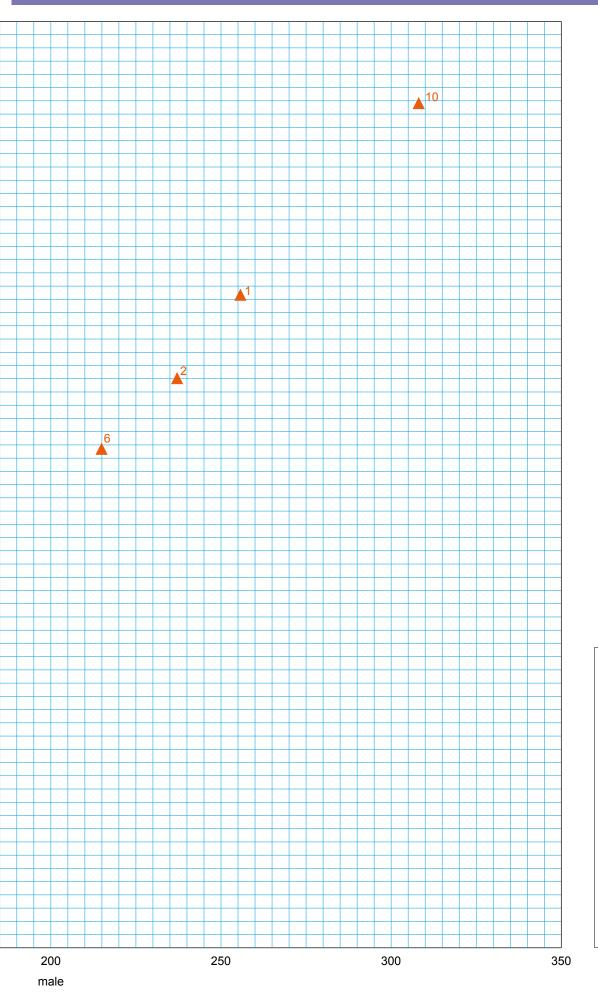


Figure 2: Under-five-years mortality rate per 1000 male births and per 1000 female births, 1990 and 2020



Legend 1990 2020 *A world average 1990 **★B** world average 2020 1. Afghanistan 2. Angola 3. Bangladesh 4. Brazil 5. China 6. Ethiopia 7. France 8. Japan 9. Malaysia 10. Niger 11. Pakistan 12. South Africa

Data: US Census Bureau, International Programs, International Data Base; World Bank Databank; World Health Organization

5

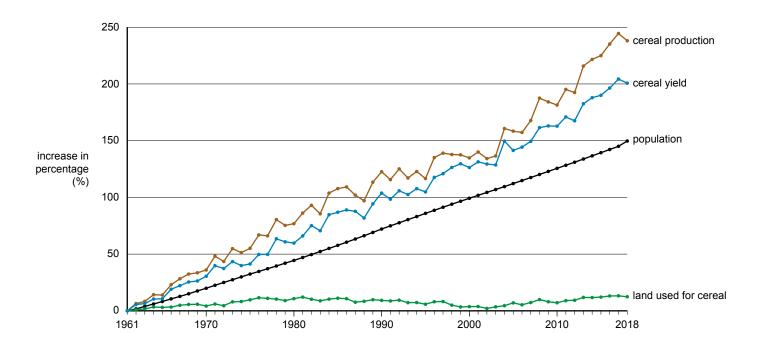


Figure 3: Change in world cereal production, yield and land use from 1961 to 2018

Interpreting this graph

Population and cereal production, yield and land use figures are indexed to the year 1961 (i.e. 1961 = 0).

Source: adapted from Our World in Data, , CC BY, based on data from World Bank and UN FAO; licensed CC-BY 4.0 https://creativecommons.org/licenses/by/4.0/