GEOGRAPHY
Written examination

Friday 15 November 2019
Reading time: 11.45 am to 12.00 noon (15 minutes)
Writing time: 12.00 noon to 2.00 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

<table>
<thead>
<tr>
<th>Number of questions</th>
<th>Number of questions to be answered</th>
<th>Number of marks</th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>8</td>
<td>80</td>
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- 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 paper 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.

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

Question 1 (16 marks)

a. Identify two geographical characteristics of the site at 33 Rue du Cardinal Lemoine. 2 marks
   
   1. ______________________________________________________
   
   2. ______________________________________________________

b. Identify two geographical characteristics of the surrounding region of 33 Rue du Cardinal Lemoine. 2 marks
   
   1. ______________________________________________________
   
   2. ______________________________________________________

c. Outline one way in which the changed land use shown in Figure 1d is likely to be more suited to the surrounding region than the previous land use was. 3 marks
   
   ______________________________________________________
   
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Question 1 – continued
d. State the location and describe the land use change for the selected area of fieldwork that you have undertaken this year.  

e. Assess the impacts or likely impacts of the land use change in the surrounding region of your selected area of fieldwork.
Use Figure 2 on pages 4 and 5 of the data book when responding to Question 2.

**Question 2** (8 marks)
Describe the spatial distribution of the estimated ice cover over Earth’s surface around 20 000 years ago.

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Question 3 (8 marks)

a. Outline either one human activity causing deforestation at a selected location or one natural process causing desertification at a selected location. 2 marks

b. Describe the impacts of the change in land cover from part a. on the environment at the selected location. 6 marks
Question 4 (8 marks)
Evaluate the effectiveness of a global response to the impacts of **either** deforestation **or** desertification **or** melting ice sheets and glaciers.
Use Figure 3 on pages 6 and 7 of the data book when responding to Questions 5 and 6.

Question 5 (4 marks)
For each of the questions that follow, select one of the countries labelled A–G in Figure 3.

a. Which country has a population density of between 10 and 50 persons per square kilometre extending over nearly the whole of its territory? 1 mark

b. Except in a narrow band in the south, where the population density is between 1 and 50 persons per square kilometre, which country has a population density of less than one person per square kilometre over most of its territory? 1 mark

c. Which country has areas with a population density exceeding 100 persons per square kilometre extending up to 1000 kilometres west from the coast? 1 mark

d. Which country’s only high-density area is an inland pocket of over 100 persons per square kilometre surrounded by areas with lower population densities? 1 mark
Question 6 (10 marks)

‘The pattern of population distribution of the four most northerly African countries, outlined in green in Figure 3, is found in many other regions of the world.’

With reference to three examples, discuss to what extent you agree with this statement.
Question 7 (8 marks)
How does Malthusian theory explain population growth and sustainability?

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Question 8 (18 marks)
Name a country with either a growing population or an ageing population.

Country __________________________________________________________

State whether this country’s population is growing or ageing.

__________________________________________________________________

a. Describe one issue and one associated challenge found in the population of the country that you have named. 6 marks

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Question 8 – continued
b. Explain one factor contributing to the issue and associated challenge described in part a. 6 marks

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C. Evaluate how successful one response has been in addressing the issue and associated challenge described in part a. 6 marks

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END OF QUESTION AND ANSWER BOOK
Extra space for responses

Clearly number all responses in this space.

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An answer book is available from the supervisor if you need extra paper 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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Written examination

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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.

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Figure 1 | Land use change

**Figure 1a:** Aerial view locating the land use change site as it was in 2017

**Figure 1b:** Location map

**Source:** adapted from Google Earth, 2019

**Key**
- urban land
- urban district
- land use change site
- metro (underground rail station)
- museum, cultural centre
- open space
- church
- historic site
- road

**Key**
- site boundary
- obscured site boundary
**Background information**

Land use change at 33 Rue du Cardinal Lemoine, an inner location in Paris, occurred between 2016 and 2019. A commercial, multistorey car park with some apartments was demolished and replaced with 135 apartments and street-level retailing.

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**Key**

- value per square metre in Australian dollars
- less than A$11 200
- more than A$21 600

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**Figure 1c:** Demolition, 2017

**Figure 1d:** The almost completed project, 2019

**Figure 1e:** Land values in the surrounding region, 2017

Source: adapted from Meilleurs Agents, <www.meilleursagents/ prix-immobilier/paris-75000/rue-du-cardinal-lemoine-2019/33>, © Mapbox and OpenStreetMap; reproduced by kind permission of Meilleurs Agents
Figure 2: Estimated ice cover over Earth’s surface around 20,000 years ago
Figure 2   Land cover change

Key

estimated ice cover around 20000 years ago

today’s land and sea areas

0 3500 km

NORTH AMERICA  continent name

Indian Ocean  ocean name
Figure 3: World population distribution

Key
Number of persons per square kilometre (km²)

- 100 and over
- 50–100
- 10–50
- less than 1
- 1–10

- river
- lake
- international boundary