GEOGRAPHY
Written examination

Friday 11 November 2016
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

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

- 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
- 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 Questions 1 and 2.

Question 1 (3 marks)

a. Tick (✓) the correct box.

A change in land use from salt pans in 1980 to urban housing in 2016 has occurred at which location?  
1 mark

- [ ] 840850
- [ ] 833850
- [ ] 828827
- [ ] 840846

b. Using map evidence, suggest how a natural characteristic appears to have restricted a change in land use in map grid square 8383.  
2 marks

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Question 2 (4 marks)

The satellite image in Figure 1b is an example of spatial technology.

Describe one way in which the information from spatial technology, such as satellite imaging, could assist in managing land use change.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Question 3 (8 marks)
Identify the location of your selected area of fieldwork.

__________________________________________________________

__________________________________________________________

a. State the land use change investigated at your selected area of fieldwork. 1 mark

__________________________________________________________

__________________________________________________________

b. For your selected area of fieldwork, outline a natural characteristic that has influenced, or is likely to influence, land use change. 3 marks

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________

c. Identify and assess one impact of land use change at your selected area of fieldwork on its surrounding region. 4 marks

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________
Question 4 (15 marks)
a. Using the outline map below, locate and name a specific location where either deforestation or desertification has occurred or is occurring. Use the correct conventions to complete the map.  3 marks

![Outline Map]

b. For each of the following, describe one impact of your selected process at the specific location mapped in part a.  12 marks

- The environment

  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________
  ______________________________________

**Question 4 – continued**
• Economic activity

• Social conditions
Question 5 (10 marks)
Using an appropriate criterion, evaluate the effectiveness of a global response to the process of melting glaciers and melting ice sheets.
Use Figure 2 on pages 4 and 5 of the data book when responding to Question 6.

**Question 6** (5 marks)
Describe the changes in the crude birth rates and crude death rates between 1986 and 2016.
**Question 7** (23 marks)
Name a country with either a growing population or an ageing population.

a. Describe the nature of an issue and challenge faced by this population.  

b. Outline the world regional context of this population issue and challenge.
c. Explain **two** strategies developed within your named country in response to this population issue and challenge. 6 marks

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

d. Compare the effectiveness of the two strategies explained in **part c.** 6 marks

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________

______________________________________________________________________
Question 8 (12 marks)

a. With reference to specific origins and destinations, explain one reason why large numbers of people have moved across international boundaries to new destinations. 6 marks

b. Discuss the significance of the movement of large numbers of people to population change at either the origin or the destination of the migrants. 6 marks
Extra space for responses

Clearly number all responses in this space.
An answer book is available from the supervisor if you need extra paper to complete your 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.
GEOGRAPHY
Written examination

Friday 11 November 2016
Reading time: 3.00 pm to 3.15 pm (15 minutes)
Writing time: 3.15 pm to 5.15 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 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 1a: Topographic map extract, Tamarin, Mauritius, 1980

Figure 1b: Satellite image, Tamarin, Mauritius, 2016

Source: © 2016 DigitalGlobe, TerraMetrics (imagery); SIO, NOAA, US Navy, NGA, GEBCO (data); © 2016 Google (map data)
Figure 2: Crude birth rates and crude death rates for 35 selected countries.

Legend:
- Red circle: 1986
- Black circle: 2016
- Red square: Two populations at the same levels
Source: US Census Bureau, International Programs, International Data Base