GEOGRAPHY
Written examination

Friday 16 November 2007
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>
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</thead>
<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>60</td>
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- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners, rulers, coloured water-based pens and markers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or white out liquid/tape.
- No calculator is allowed in this examination.

Materials supplied
- Question and answer book of 11 pages.
- A data book.

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.
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Question 1

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

a. Identify two features of the distribution of Australia’s average annual rainfall shown on Figure 1a.
   i. Feature one
   
   
   ii. Feature two
   
   
   1 + 1 = 2 marks

b. Describe the spatial association between population distribution, shown on Figure 1b, and the average annual rainfall in Western Australia, shown on Figure 1a.

   
   
   
   2 marks

c. In what way does the information in Figure 1c indicate the importance of water as a resource in the region marked A on Figure 1b?

   
   
   
   2 marks

Total 6 marks
Question 2

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

The data in Figure 2 is from the Riverina, a subregion of the Murray-Darling Basin. Water in this subregion is of great importance for farming activities.

a. Select either Figure 2b or Figure 2c _______________________.

Describe how water is used as a resource in your selected figure.

________________________________________________________________________

________________________________________________________________________

1 mark

b. Select either Figure 2d or 2e _______________________.

i. Identify and classify one resource shown in your selected figure.

________________________________________________________________________

________________________________________________________________________

ii. Justify your classification.

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1 + 1 = 2 marks

c. Name an area or subregion of the Murray-Darling Basin, other than the Riverina, that you have studied.

Area or subregion _______________________.

i. In the area or subregion you have identified above, describe the importance of water to either people or the environment.

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Question 2 – continued
ii. Discuss either one difference or one similarity between the water usage in the Riverina subregion and the area you discussed in part i.


3 + 3 = 6 marks

d. The farmer in Figure 2f has water allocation rights.
   i. What are water allocation rights?


1 + 3 = 4 marks

Total 13 marks
Question 3
Identify a local resource for which you have collected data in the field.

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a. Discuss one positive impact of resource use on people and one positive impact of resource use on the environment for your chosen local resource.
   i. Positive impact on people

   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________

   ii. Positive impact on environment

   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________

2 + 2 = 4 marks

b. Describe one way in which spatial interaction takes place within the local resource for which you have collected data in the field.

   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________

2 marks
c. Identify a policy for the future use and management of your studied local resource.

________________________________________________________

________________________________________________________

________________________________________________________

1 mark

d. Evaluate this policy in reference to
   i. practicality
       ______________________________________________________
       ______________________________________________________
       ______________________________________________________
   ii. sustainability.
       ______________________________________________________
       ______________________________________________________
       ______________________________________________________

2 + 2 = 4 marks
Total 11 marks
Question 4

Use Figure 3 on pages 6 and 7 of the data book when responding to Question 4.

a. Describe the distribution of areas with a natural increase of population greater than 15 per 1000.

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3 marks

b. Some areas of the world are experiencing population decline.
For one of these areas explain why the population is declining.

Area ___________________________________________________________

Examination

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3 marks
c. Many countries of the world have strategies designed to deal with a specific aspect of their population.
   i. With reference to two countries you have studied, outline a different strategy for each country that has been developed to deal with a specific aspect of their population.

Country 1 – strategy

Country 2 – strategy

ii. Evaluate the effectiveness, in the short term and long term, of the strategy you have outlined for each country.

Country 1

Country 2

2 + 2 = 4 marks

3 + 3 = 6 marks

Total 16 marks
Question 5

a. Use the outline map provided below to map the distribution of a global phenomenon you have studied. Do not use the example of population.

b. Mark on, and name, one location on the world map where the global phenomenon is having either a positive or negative impact on either people or the environment.
c. Explain how this global phenomenon is having a positive or negative impact at this location.

__________________________________________________________________________________________________________________________________________________________

__________________________________________________________________________________________________________________________________________________________

__________________________________________________________________________________________________________________________________________________________

2 marks

d. Describe and justify a strategy that has been developed by a specific government or nongovernment organisation to deal with this impact.

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4 marks

e. Evaluate the success, or likely success, of this strategy in one other location where this phenomenon is occurring.

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3 marks

Total 14 marks

END OF QUESTION AND ANSWER BOOK
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DATA BOOK

Directions to students

- 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**  
Water as a resource

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**Figure 1a:** Australia’s average annual rainfall

Source: Bureau of Meteorology data

**Figure 1c:** Above and below average rainfall from 1 March 2005 to 28 February 2007

Source: Bureau of Meteorology data
Figure 1b: Australia’s population distribution
Figure 2b: Cattle grazing near an irrigation channel
Figure 2d: Harvesting rock melons
Figure 2a: Map extract and key: Hay, New South Wales, 1:250 000
Figure 2c: Rice growing
Figure 2e: Harvesting onions
Figure 2f: Taking water from an irrigation channel
Figure 3: Rates of natural increase and decrease per 1000 people, 2006