

Centre Number						Candidate Number				
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Other Names										
Candidate Signature										



General Certificate of Education
Advanced Subsidiary Examination
June 2011

Geography

GEOG1

Unit 1 Physical and Human Geography

Tuesday 17 May 2011 1.30 pm to 3.30 pm

For this paper you will need:

- a pencil
- a rubber
- a ruler

You may use a calculator.

Time allowed

- 2 hours

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Answer Question 1 and **one other question** from **Section A** and Question 5 and **one other question** from **Section B**.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 120.
- Each question is worth 30 marks.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.

Advice

- Where appropriate, sketch maps and diagrams should be used to illustrate answers and reference made to examples and case studies.
- You are advised to spend about 60 minutes on Section A and about 60 minutes on Section B.

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
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5	
6	
7	
8	
TOTAL	



J U N 1 1 G E O G 1 0 1

Section A

Answer **Question 1** and **one other** question from this section.

1 RIVERS, FLOODS AND MANAGEMENT

1 (a) (i) Study **Figure 1** which shows a river in the Glens of Antrim, Northern Ireland.

Label **Figure 1** to describe the characteristics of the landforms shown.

(4 marks)

Figure 1



1 (b) Explain **one** way in which people can cause flooding.

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2 COLD ENVIRONMENTS

2 (a) Study **Figure 2** which shows depositional landforms in the valley of the Athabasca Glacier in Canada.

Figure 2



2 (a) (i) Describe the types of moraine shown in Zone A of **Figure 2**.

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2 (a) (ii) Explain the origin of the moraine shown in Zone **A** of **Figure 2**.

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2 (b) Periglacial processes will affect the area around the glacier in **Figure 2**.

2 (b) (i) Define the term 'periglacial'.

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(2 marks)

2 (b) (ii) Outline periglacial processes likely to be occurring around the glacier in **Figure 2**.

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3 COASTAL ENVIRONMENTS

3 (a) Study **Figure 3** which shows evidence of mass movement south of Mappleton on the Holderness coast.

Figure 3



3 (a) (i) Define the term 'mass movement'.

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(2 marks)

3 (a) (ii) Describe evidence in **Figure 3** which shows that mass movement has occurred.

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3 (b) (i) Describe physical causes of coastal erosion.

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3 (b) (ii) Explain how beach nourishment can reduce coastal erosion.

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4 HOT DESERT ENVIRONMENTS AND THEIR MARGINS

4 (a) Study **Figure 4** which shows a desert landscape in Death Valley, California.

Figure 4



4 (a) (i) Describe the landscape shown in **Figure 4**.

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4 (b) (i) Define the term 'desertification'.

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(2 marks)

4 (b) (ii) Describe the distribution of areas at risk from desertification.

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**End of Section A
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SECTION B

Answer **Question 5** and **one other** question from this section.

5 POPULATION CHANGE

5 (a) Study **Figure 5** which shows information for four different areas of settlement in four wards of Leeds Metropolitan District in 2008/2009.

Figure 5

Settlement Area	Inner city	Suburban	Rural-urban fringe	Rural settlement
Ward	Burmantofts and Richmond Hill	Moortown	Garforth and Swillington	Harewood
Measure				
% households claiming council benefits	44	17	16	8
% population of working age claiming Jobseeker's Allowance	6.7	1.7	1.2	0.8
% of area within ward that is in the most deprived 10% nationally	81	7	0	0

5 (a) (i) Choose **two** of the settlement areas shown in **Figure 5**.

Using **Figure 5** only, contrast the characteristics of the two areas that you have chosen.

Areas chosen

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5 (b) Study **Figure 6** which is a newspaper extract dated 28 August 2009, about population change in the United Kingdom.

Figure 6

<p>NEW BABY BOOM PUSHES UK POPULATION ABOVE 61 MILLION FOR THE FIRST TIME</p>	<p>Yet despite the surge in fertility rates, the country's overall population would still be shrinking if it were not for immigration, the ONS said. Births are increasing because women born in Britain are having more babies and also because the number of women of child-bearing age has risen by 20 per cent because of immigration since 2001.</p> <p>The ONS said no single reason could be given for the changes in fertility but suggested that it could be due to a baby boom among women in their 30s.</p> <p>Better support for families including tax credits and more generous maternity leave may also be a factor behind the increase, the ONS said.</p> <p>© The Times 08.2009</p>
<p>A baby boom fuelled by rising fertility rates and immigration has pushed the population of the United Kingdom to more than 61 million for the first time. More than a quarter of a million children were born last year as fertility rates reached the highest levels in a generation, figures from the Office for National Statistics (ONS) showed.</p>	
<p>For the first time in almost a decade, population change caused by the number of births and deaths overtook immigration as the main driver of the rising numbers in the country.</p>	

Using **Figure 6**, describe and comment on the causes of recent population change in the United Kingdom.

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6 FOOD SUPPLY ISSUES

6 (a) Study **Figure 7**, taken from the BBC news website dated 13 August 2003, which relates to land reform in Brazil.

Figure 7

Brazil's land reform dilemma
<p>In Brazil's extensive ranching country, the landless peasants' movement, the Movimento Sem Terra (MST), is impatient for change.</p> <p>The MST has been fighting for land reform for nearly two decades.</p> <p>And over the last 50 years, mechanisation has driven thousands of poor people from the land to populate the favelas that surround cities like São Paulo and Rio de Janeiro.</p> <p>The MST is determined to change a system where around 1% of the country's landowners control nearly half of all Brazil's agricultural land.</p> <p>"We are committed to reform. Of course we must do it within our financial means, and our government does not have enough money to buy as much land as we would like."</p>

Using **Figure 7** and your own knowledge, explain how land reform can lead to increased food production.

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6 (b) (i) Study **Figure 8** which shows the origin of selected foods imported by a supermarket in England in September 2009.

Figure 8



Describe the pattern shown.

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7 ENERGY ISSUES

7 (a) Study **Figure 9**, taken from a recent geographical magazine, which relates to the importance of bio-mass, including fuelwood, as a source of energy.

Figure 9

BIO-MASS ENERGY

More than 2 billion people in the world rely on bio-mass to cook their meals – the vast majority of them in Less Economically Developed Countries (LEDCs). This makes bio-mass one of the most important global energy sources.

Bio-mass energy is the general term given to plant and animal matter which can be used as fuel. This includes wood, charcoal, waste plant material, dung and 'bio-fuels' derived from bio-mass, such as sunflower oil. Bio-mass is an important source of energy, supplying around 10.8% of the world's total energy demand, most of this in developing countries. In LEDCs, 40% of all energy used comes from bio-mass, and this figure is around 90% in rural areas. In many places, bio-mass is the *only* source of energy available to people.

Per capita consumption of energy in many countries in Africa is less than a tenth of that in western Europe and the majority of energy use goes towards meeting basic subsistence needs. Cooking comprises about 90% of all energy use in rural areas of LEDCs.

7 (a) (i) With reference to **Figure 9**, explain the importance of bio-mass, including fuelwood, as a source of energy in developing countries.

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7 (a) (ii) Describe environmental impacts of fuelwood gathering.

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7 (b) Study **Figure 10** which is an extract taken in September 2009 from the website of BP, a transnational corporation.

Figure 10

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due to third-party copyright constraints.

Using **Figure 10** and your own knowledge, comment on the role of transnational corporations in world energy production.

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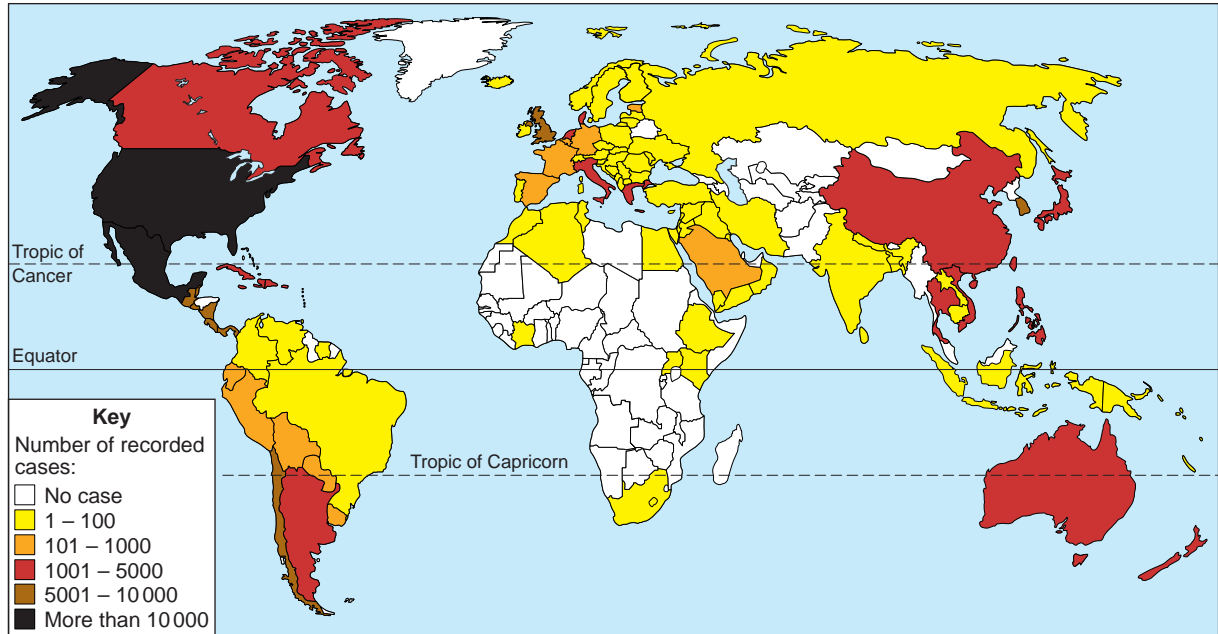
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8 HEALTH ISSUES

8 (a) Study **Figure 11** which shows the distribution of recorded cases of swine flu up to May 2009.

Figure 11



8 (a) (i) Describe the pattern shown.

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Figure 7: from BBC News at bbc.co.uk/news
Figure 9: Geography Review, Vol. 20, No. 4, March 2007, Jonathan Avis 'Cooking and Climate Change'. Reproduced by permission of Philip Allan Updates.
Figure 10: BP
Figure 11: www.who.int, Pandemic (H1N1) 2009 – update 58.
Figure 12: from BBC News at bbc.co.uk/news

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