

Write your name here	
Surname	Other names
Centre Number	Candidate Number
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Edexcel GCE	
Geography	
Advanced Subsidiary	
Unit 1: Global Challenges	
Monday 14 January 2013 – Afternoon	Paper Reference
Time: 1 hour 30 minutes	6GE01/01
You must have: Resource Booklet (enclosed)	Total Marks
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Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **ALL** questions in Section A and **ONE** question in Section B.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Spend approximately one hour on Section A and 30 minutes on Section B.
- Check your answers if you have time at the end.

Turn over ►

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PEARSON

SECTION A**Answer ALL questions.****You must use the Resource Booklet.****You are advised to spend approximately one hour on Section A.****Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ~~☒~~ and then mark your new answer with a cross ☒.****1** Study Figure 1.

(a) (i) Identify the year when:

(2)

1. human activity was entirely to blame for a major insurance loss.

2. a **geophysical** hazard was the cause of a major insurance loss.

(ii) Suggest why the insurance losses shown in Figure 1 frequently relate to the USA.

(3)

2 Study Figure 2.

(a) (i) Describe the trend in recorded differences compared to the long-term average temperature in Figure 2.

(3)

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(ii) Suggest why data uncertainty decreases over time.

(3)

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(b) Explain the processes involved in the **natural** greenhouse effect.

(5)

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(Total for Question 2 = 11 marks)



3 Study Figure 3.

(a) (i) Which government strategy are people shown to be most satisfied with?

Put a cross in the correct box.

(1)

- A Developing renewable energy sources
- B Afforestation schemes
- C Increasing taxes on fossil fuels
- D Carbon trading schemes
- E Water conservation schemes

(ii) State **one** example of an international agreement on climate change.

(1)

(iii) Identify a possible **adaptation** strategy included in Figure 3.

(1)

(iv) Explain how afforestation might help tackle global warming.

(3)



(b) Explain why some climate change mitigation strategies are often unpopular.

(5)

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(Total for Question 3 = 11 marks)



4 Study Figure 4.

(a) (i) Compare Facebook connectivity in Africa with that in Europe.

(3)

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(ii) Suggest how **physical** factors might contribute to the pattern of connectivity shown.

(3)

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(b) Explain how **political** factors both help and hinder the growth of global connections.

(4)

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(Total for Question 4 = 10 marks)



5 Study Figure 5.

(a) In which year would you expect Elsie Stevens to have first been recorded by a UK census?

Put a cross in the correct box.

(1)

- A** 1910
- B** 1911
- C** 1928
- D** 1931
- E** 1945

(b) A greater number of people aged 100 or over were recorded in the 2011 UK census than in previous censuses. Which of the following explains most of this increase?

Put a cross in the correct box.

(1)

- A** The retirement age has fallen
- B** The UK has a falling birth rate
- C** Retired people are moving to the UK
- D** Fewer people are retiring to Spain
- E** Health and hygiene have improved

(c) Suggest **three** reasons why census data may sometimes be incomplete or inaccurate.

(3)

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(d) Explain how **personal and local** data sources can be used to study population changes and people's roots.

(5)

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(Total for Question 5 = 10 marks)



6 Study Figure 6.

(a) Which two megacities show an acceptable level of SO_2 pollution by WHO recommended maximum levels?

Put a cross in the correct box.

(1)

- A** Tokyo and Sao Paulo
- B** Tokyo and Mexico City
- C** Mexico City and Sao Paulo
- D** Sao Paulo and Rio de Janeiro
- E** Rio de Janeiro and Mexico City

(b) Suggest **three** reasons why air pollution is often higher in developing world megacities than in developed world megacities.

(3)

1

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2

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3

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(c) Megacities in different countries develop in contrasting ways. Arrange the following characteristics of megacities into two groups by putting the letters A to F into the table provided.

(3)

- A** Large numbers of car-owning commuters travel in from the countryside
- B** Many people employed in the informal sector
- C** Large scale rural to urban migration
- D** Low rate of natural increase
- E** Rapid shanty town growth
- F** Very high per capita ecological footprint

Megacities in the developed world	Megacities in the developing world



(d) Using examples, explain how cities can become more sustainable.

(5)

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(Total for Question 6 = 12 marks)

TOTAL FOR SECTION A = 65 MARKS



SECTION B

Answer **ONE** question in this section.

Use the evidence provided in the Resource Booklet and your own ideas.
You are advised to spend approximately 30 minutes on Section B.

***7** Study Figure 7.

(a) Explain how El Niño cycles affect the **frequency** of floods and droughts in the Pacific region. (10)

(b) Examine the global patterns of cyclone and storm risk. (15)

(Total for Question 7 = 25 marks)

***8** Study Figure 8.

(a) Suggest why it is difficult to predict future climate change in the Arctic. (10)

(b) Examine how the **economic** impacts of climate change may vary **within** the African continent. (15)

(Total for Question 8 = 25 marks)

***9** Study Figure 9.

(a) Suggest why different groups of people disagree about the need for trade blocs such as NAFTA. (10)

(b) Examine how globalisation has resulted in economic winners and losers. (15)

(Total for Question 9 = 25 marks)

***10** Study Figure 10.

(a) Suggest why some countries have a higher percentage of foreign citizens than others. (10)

(b) Explain the benefits of migration within Europe for **host** nations. (15)

(Total for Question 10 = 25 marks)



Handwriting practice area with 25 horizontal dotted lines.

TOTAL FOR SECTION B = 25 MARKS
TOTAL FOR PAPER = 90 MARKS

