

Write your name here	
Surname	Other names
Centre Number	Candidate Number
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Edexcel GCE	
Geography	
Advanced Subsidiary	
Unit 1: Global Challenges	
Friday 14 January 2011 – Morning Time: 1 hour 30 minutes	Paper Reference 6GE01/01
You must have: Resource Booklet (enclosed)	Total Marks

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.

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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 . 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) Identify **two** types of major hydro-meteorological hazard other than different types of storm.

(2)

1

2

(b) Which is the correct statement of the disaster risk equation?

Put a cross in the correct box.

(1)

A	$\frac{\text{Hazards} \times \text{Capacity to cope}}{\text{Vulnerability}}$	<input checked="" type="checkbox"/>
B	$\frac{\text{Hazards} \times \text{Vulnerability}}{\text{Capacity to cope}}$	<input checked="" type="checkbox"/>
C	$\frac{\text{Capacity to cope} \times \text{Vulnerability}}{\text{Hazards}}$	<input checked="" type="checkbox"/>
D	$\frac{\text{Coping potential} \times \text{Vulnerability}}{\text{Risk capacity}}$	<input checked="" type="checkbox"/>



(c) How might global warming increase hurricane disaster risk?

(3)

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(d) Explain how human factors have contributed to the increased reporting of earthquake disasters.

(5)

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(Total for Question 1 = 11 marks)



2 Study Figure 2.

(a) Identify which **three** of the following actions are examples of climate change mitigation.

(3)

- A building higher flood walls
- B constructing wind turbines
- C improving flood warning systems
- D improving hurricane monitoring
- E using recycling schemes
- F greater use of nuclear power

1

2

3

(b) Describe the strengths and weaknesses of adaptation as a way of managing climate change.

(4)

Strengths

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Weaknesses

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(c) Suggest reasons why the economic impacts of climate change in the continent of Africa are complex.

(5)

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(Total for Question 2 = 12 marks)



3 Study Figure 3.

(a) Which region has most areas showing a predicted decrease in flood risk?

Put a cross in the correct box.

(1)

- A South-east England
- B South-west England
- C North-east England
- D Midlands
- E Wales

(b) Explain **two** ways in which climate change may lead to an increase in river flooding.

(4)

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(c) Explain why future changes in global sea level are hard to predict.

(5)

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(Total for Question 3 = 10 marks)



4 Study Figure 4.

(a) Which European country has the largest number of Tesco stores outside the UK? (1)

(b) Identify **two** continents which have no Tesco stores.

Put a cross in the correct box. (1)

- A Asia and Africa
- B Asia and Europe
- C North America and South America
- D South America and Africa
- E North America and Africa

(c) Suggest reasons why Tesco stores have not been opened in some continents. (3)

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5 Study Figure 5.

(a) Identify the year in which net migration (the difference between immigration and emigration) was at its greatest.

Put a cross in the correct box.

(1)

A 2006

B 2004

C 2002

D 2000

E 1998

(b) State the reason immigration to the UK rose sharply in 2004.

(1)

(c) Compare the immigration and emigration trends shown.

(3)

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6 Study Figure 6.

(a) Identify which **two** of the following statements are most likely to apply to the 1901 family.

(2)

- W** The mother describes herself as 'Asian British'
- X** Three generations live in the same house
- Y** The eldest child works full time in a local textile factory
- Z** All the children aspire to study at university

1

2

(b) State **one** reason for falling fertility in the UK since 1901.

(1)

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(c) What research sources could be used to investigate social and economic changes in a local population?

(4)

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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) Suggest why some places are at more risk than others of experiencing a major volcanic disaster. (10)
- (b) Explain why the Philippines and California multiple hazard hotspots are affected by disasters in different ways. (15)

(Total for Question 7 = 25 marks)

***8** Study Figure 8.

- (a) Suggest reasons for the differences in carbon dioxide emissions shown. (10)
- (b) Examine the evidence used to investigate long, medium and short-term climate change. (15)

(Total for Question 8 = 25 marks)

***9** Study Figure 9.

- (a) Explain how technological innovations have contributed to a 'shrinking world' for many people. (10)
- (b) Using examples, examine how nations are classified into different types of global groupings. (15)

(Total for Question 9 = 25 marks)

***10** Study Figure 10.

- (a) Suggest reasons for the changes shown in the size and distribution of megacities. (10)
- (b) Using examples, explain the challenges of rapid megacity growth. (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

