

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCE

Geography

Advanced Subsidiary

Unit 1: Global Challenges

Friday 15 January 2010 – 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** 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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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) Which region has experienced the greatest number of category 5 tropical cyclones? Put a cross in the correct box.

(1)

- South Pacific
- South Atlantic
- East Pacific
- West Pacific
- North Atlantic

(b) Describe the global distribution of tropical cyclones.

(3)

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(c) Give reasons for the distribution of tropical cyclones.

(3)

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(d) Explain how tropical cyclones contribute to the risk of living in the Philippines disaster hotspot.

(4)

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(Total for Question 1 = 11 marks)



2 Study Figure 2.

(a) Describe

(2)

1. the long term variations in CO_2 level,

2. the recent trend.

(b) Name one source of evidence for the long term CO_2 data.

(1)

(c) Describe two recent environmental changes that provide evidence for global warming.

(4)

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(d) Explain why the majority of scientists believe humans are responsible for today's high level of CO₂.

(4)

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(Total for Question 2 = 11 marks)



3 Study Figure 3.

(a) Which **one** of the following five statements is correct? Put a cross in the correct box.

(1)

- Belgium has the highest target to meet by 2020
- France has made most progress to meet its target
- The UK has made most progress to meet its target
- Ireland has made least progress to meet its target
- Ireland has the lowest target to meet by 2020

(b) Suggest how the use of renewable energy sources can help tackle climate change.

(2)

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(c) Suggest why progress towards meeting renewable energy targets is so slow.

(3)

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(d) Using examples, explain how **adaptation** strategies can help people cope with the impacts of climate change.

(5)

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(Total for Question 3 = 11 marks)



4 Study Figure 4.

(a) What **global grouping** does Ethiopia belong to? Put a cross in the correct box.

(1)

- OECD nations
- The NICs
- The LDCs
- OPEC states
- NAFTA

(b) State the evidence, in Figure 4, of a **two speed world**.

(2)

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(c) What are **newly industrialised countries** (NICs)?

(3)

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(d) Explain why the **OPEC nations** have become a wealthy and powerful global grouping.

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(Total for Question 4 = 10 marks)



5 Study Figure 5.

(a) (i) State which age group is found in unusually high numbers along the south coast.

(1)

(ii) Suggest reasons why this age group is found in unusually high numbers along the south coast.

(2)

(b) Many large urban areas have unusually high numbers of young people (under 25). Suggest reasons for this.

(3)



(c) Explain how 20th Century improvements in **health** and **hygiene** have brought increased life expectancy to the UK.

(4)

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(Total for Question 5 = 10 marks)



6 Study Figure 6.

(a) What is a **megacity**? Put a cross in the correct box.

(1)

- A city with more than one million residents
- The capital city of a G8 nation
- A city with a major stock exchange
- A country's capital city
- A city or urban region with more than ten million residents

(b) Using the photographs and your own knowledge, complete the table to contrast the characteristics of the two megacities shown in Figure 6.

(6)

| | A - Lagos Developing world megacity | B - New York Developed world megacity |
|-------------------------|---|---|
| Average building height | | |
| Quality of housing | | |
| Economic functions | | |



(c) Explain how the growth of megacities threatens the sustainability of the urban environment.

(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 and examples.
You are advised to spend approximately 30 minutes on Section B.

*7 Study Figure 7.

(a) Suggest why many megacities could face increased **vulnerability** to natural disasters. (10)

(b) Explain how global warming and El Niño events may lead to increasing natural hazards. (15)

(Total for Question 7 = 25 marks)

*8 Study Figure 8.

(a) Suggest ways in which climate change might affect Africa's physical environment. (10)

(b) Examine the possible **economic** impacts of projected climate change for the African continent. (15)

(Total for Question 8 = 25 marks)

*9 Study Figure 9.

(a) Suggest reasons why the membership of trade blocs, such as the EU, has changed over time. (10)

(b) Explain how transport improvements have helped build a more **interconnected** world. (15)

(Total for Question 9 = 25 marks)

*10 Study Figure 10.

(a) Suggest why the UK government welcomes some migrants but not others. (10)

(b) Examine the impact of UK retirement migration to the Mediterranean on source and host regions. (15)

(Total for Question 10 = 25 marks)



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Handwriting practice area with 25 horizontal dotted lines.



Handwriting practice area with 20 horizontal dotted lines.



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

