

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCE

Geography

Advanced Subsidiary

Unit 1: Global Challenges

Tuesday 14 May 2013 – Afternoon

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.

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) Deforestation often increases flood risk. This is because it leads to:

Put a cross in the **two** correct boxes.

(2)

- A decreased interception
- B increased interception
- C increased precipitation
- D increased condensation
- E decreased condensation
- F increased overland flow

(ii) Deforestation can increase the frequency of which hazard?

Put a cross in the correct box.

(1)

- A Storm
- B Tsunami
- C Landslide
- D Drought
- E Earthquake



(b) Identify **two** reasons for deforestation in some developing countries.

(2)

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(c) Explain how urban growth can lead to more people being at risk from flooding.

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(Total for Question 1 = 10 marks)



2 Study Figure 2.

(a) (i) Describe the variations in sunspot activity shown.

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(ii) Briefly explain how these sunspot variations are linked to past climate changes.

(3)

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(b) Explain why some evidence for past climate changes is incomplete and unreliable.

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(Total for Question 2 = 11 marks)



3 Study Figure 3.

(a) (i) What is the meaning of **food insecurity**?

Put a cross in the correct box.

(1)

- A** Being unsure whether you should remain a farmer
- B** Not knowing who will provide your food aid
- C** Lacking access to sufficient food for a healthy life
- D** Not knowing when your crops will ripen
- E** Being unsure how far your food has been transported

(ii) Identify **one** human factor that contributes to rising food insecurity for vulnerable people.

(1)

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(b) Using located examples, suggest how hazards caused by El Niño events can lead to food shortages.

(4)

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(c) Suggest how global warming could affect:

(6)

food supplies in Africa

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ecosystems in the Arctic

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(Total for Question 3 = 12 marks)



4 Study Figure 4.

(a) (i) Using Figure 4 only, identify **one** source country for:

(2)

post-colonial migrants

post-accession EU migrants

(ii) Using Figure 4, explain why the UK has accepted large numbers of EU migrants.

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(b) Explain why post-colonial migrants have been attracted to the UK since the 1950s.

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(Total for Question 4 = 10 marks)



5 Study Figure 5.

(a) State **two** ways in which rural change, such as that shown, can lead to out-migration.

(2)

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(b) Using examples, describe the different types of employment opportunity that pull migrants to megacities.

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(c) Explain why rapid megacity growth in the developing world creates urban environmental problems.

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(Total for Question 5 = 11 marks)



6 Study Figure 6.

(a) (i) Suggest **two** reasons for low Environmental, Social and Governance (ESG) scores.

(2)

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(ii) Suggest **two** actions that TNCs, such as those shown in Figure 6, could take to improve their ethical score.

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(b) Explain the strengths and weaknesses of **buying locally** as an ethical or green strategy.

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(Total for Question 6 = 11 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) Suggest why population changes such as those shown could increase the disaster risk in hazardous places. (10)
- (b) Explain why both California and the Philippines experience geophysical hazards. (15)

(Total for Question 7 = 25 marks)

***8** Study Figure 8.

- (a) Suggest how the melting of these ice stores would contribute to rises in global temperature and sea-level. (10)
- (b) Explain why some nations will suffer more than others from the impact of predicted global sea-level rises. (15)

(Total for Question 8 = 25 marks)

***9** Study Figure 9.

- (a) Suggest what the data show about the pattern of global trade flows. (10)
- (b) Examine the role that TNCs play in the growth of globalisation. (15)

(Total for Question 9 = 25 marks)

***10** Study Figure 10.

- (a) Suggest why the challenges of caring for a greying population vary from place to place. (10)
- (b) Examine the impact of migration on the UK's population structure and characteristics. (15)

(Total for Question 10 = 25 marks)



Indicate which question you are answering by marking a cross . If you change your mind, put a line through the box and then indicate your new question with a cross .

Chosen Question Number:

Question 7

Question 8

Question 9

Question 10

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



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



Edexcel GCE

Geography

**Advanced Subsidiary
Unit 1: Global Challenges
RESOURCE BOOKLET**

Tuesday 14 May 2013 – Afternoon

Paper Reference

6GE01/01

Do not return the Resource Booklet with the question paper.

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PEARSON

SECTION A

The following resources relate to Questions 1–6.

Figure 1 Natural water flows

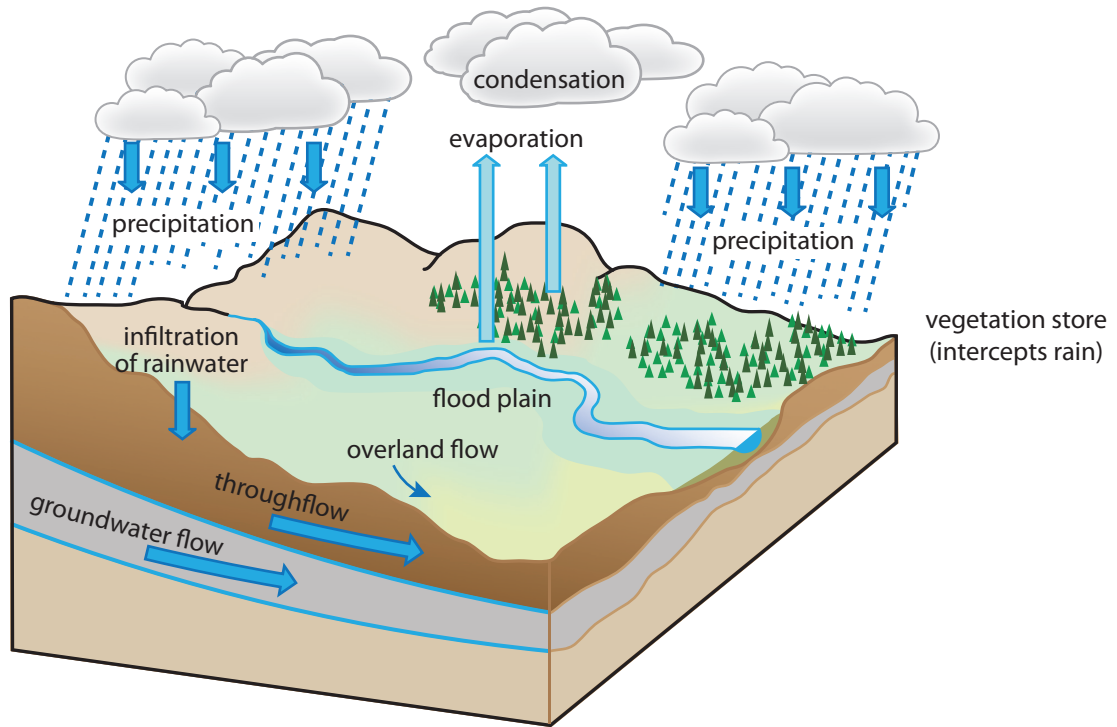
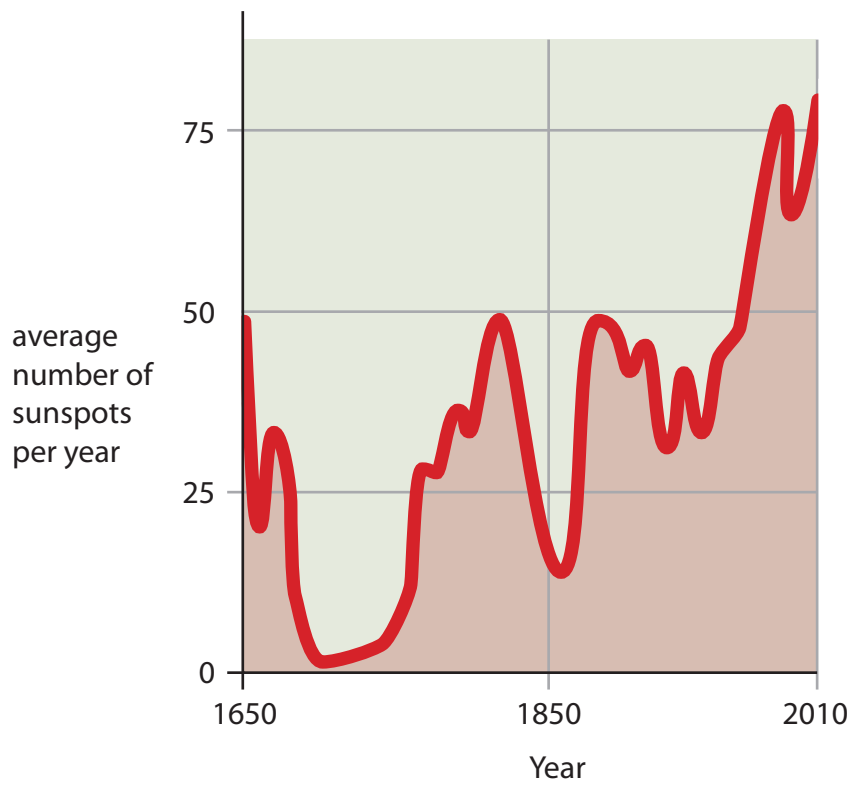


Figure 2 **Sunspot observations since 1650**



— observed number of sunspots

(Source: © *New Scientist*)

Figure 3 Some causes of food insecurity for low-income countries



Figure 4 **Numbers of people born abroad who are now living in the UK**

Country of birth	Number living in the UK (2010)
Pakistan	419,000
Germany	290,000
Nigeria	154,000
France	116,000
Australia	111,000
Portugal	86,000
Lithuania	81,000
Romania	68,000

(Source: © Crown Copyright)

Figure 5 A rural region in a developing country where agriculture has recently been modernised



Before

(Source: © IDEI)



Now

(Source: © Bryan Wittal)

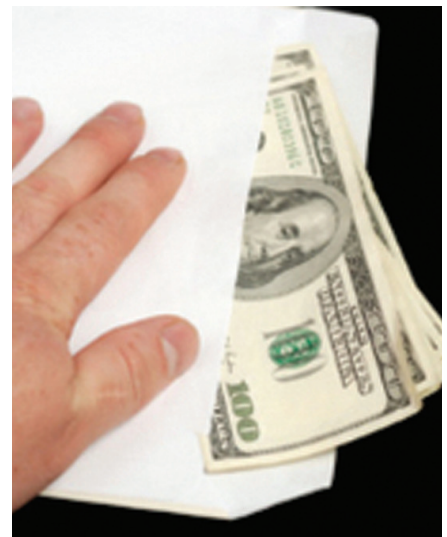
Figure 6 Five TNCs ranked according to their ethical records



Environment



Social



Governance

(Source: © Financial Times)

The 'ESG' ethical scoring system gives global companies a rating based on their environmental, social and governance (anti-corruption) records. The higher the score, the better the record.

TNC	Sector	Headquarters	ESG Score
Aviva	Insurance	UK	5
Vivendi	Media	France	5
Rio Tinto	Mining	Australia	4.2
Hynix	Manufacturing	South Korea	3.5
Cathay Pacific Airways	Travel	China	3

(Source: © FTSE)

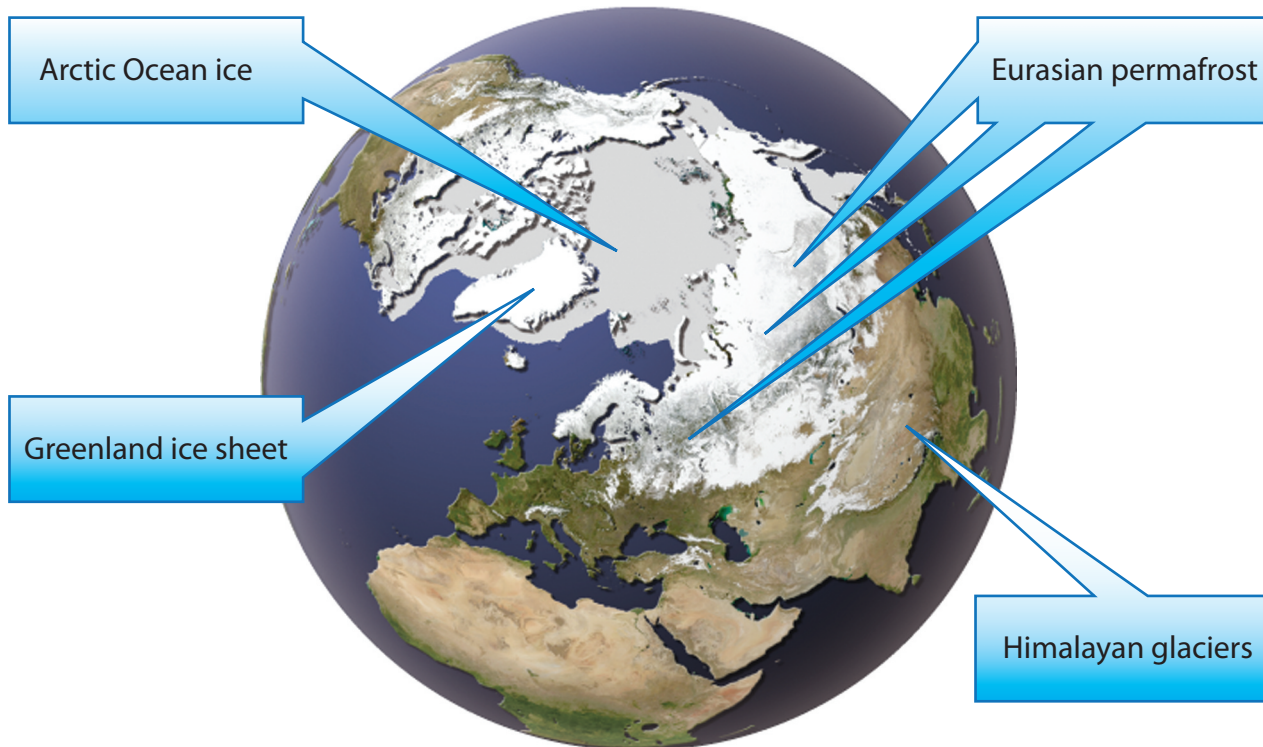
SECTION B

The following resources relate to Questions 7–10.

Figure 7 Population change in Southern California, 2008–2035

Population characteristic	2008	2035 (projected)
Number of people (million)	18.9	26.1
Number of households (million)	5.9	7.7
White population (%)	35	23
Black and Hispanic population (%)	65	77
Over-65s (%)	9	17
Living in poverty (%)	13	19

Figure 8 Ice stores in the Northern Hemisphere (March 2012)



(Source: © NEP/GRID-Arendal)

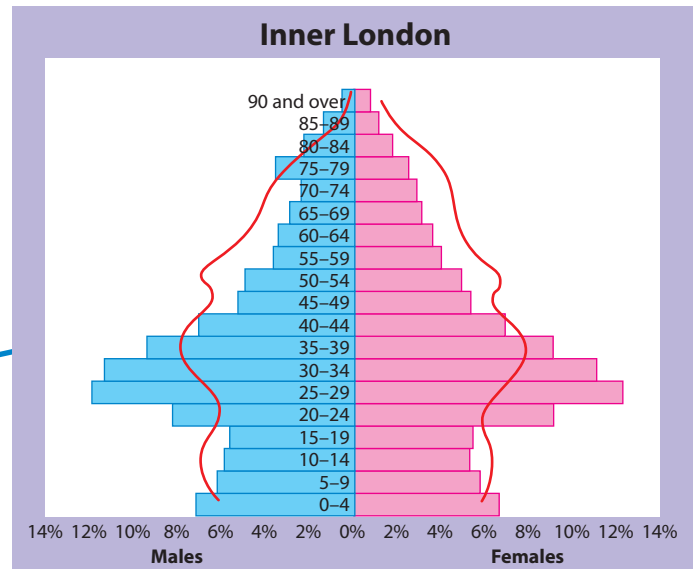
Figure 9 Global shipping exports of containerised goods (2010)



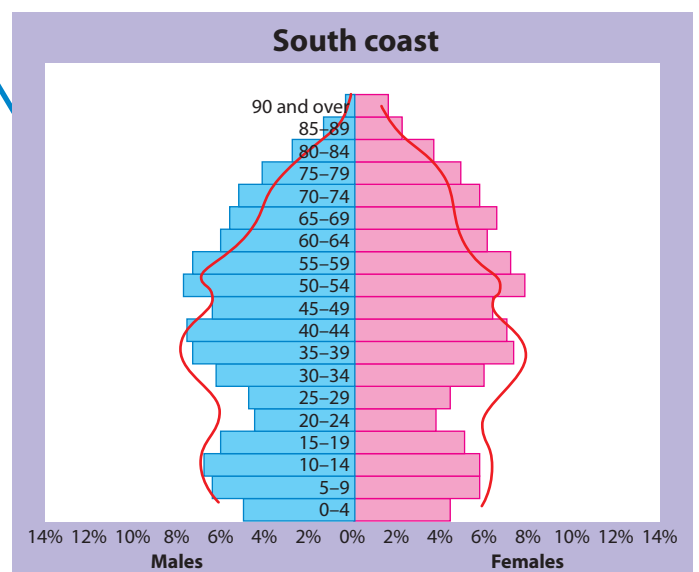
From:	Annual % change, 2010
Asia	207.9m 16.6%
North America	45.6m 13.7%
Latin America	37.2m 10.9%
Africa	22.9m 10.8%
Western Europe	86.7m 10.1%
Middle East	34.1m 9.7%

(Source: Financial Times)

Figure 10 Regional variations in population structure in England compared to the UK average



— UK average



Examples of costs of care for the elderly include:

- care homes
- home healthcare
- meals on wheels
- freedom bus passes

The cost of elderly care is met from a variety of sources including:

- personal wealth
- national taxes
- local taxes

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Sun more active than for a millennium, Jenny Hogan, New Scientist, 2003

Migration Statistics, Office for National Statistics, 2010

Women work on a small farm in Orissa, India. IDEI, 2006

Financial Times, 2010

ESG Ratings, FTSE, 2012

Cryosphere, GRID-Arendal, 2012

Port operators, Robert Wright, Financial Times, 2011

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