

**GENERAL CERTIFICATE OF SECONDARY EDUCATION**  
**GEOGRAPHY C (1988)**

Terminal Examination (Higher Tier)

**2403**

Candidates answer on the Answer Booklet

**OCR Supplied Materials:**

- 12 page Answer Booklet
- OS Map Extract (inserted)

**Other Materials Required:**

None

**Monday 14 June 2010**  
**Morning**

**Duration: 2 hours 15 minutes**



**INSTRUCTIONS TO CANDIDATES**

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the spaces provided on the Answer Booklet.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **four** questions: **two** from Section A, **one** from Section B and **one** from Section C.
  - SECTION A: PLACES**  
Answer **two** questions from A1, A2 and A3.
  - SECTION B: PHYSICAL THEMES**  
Answer **either** Question B4 **or** Question B5.
  - SECTION C: HUMAN THEMES**  
Answer **either** Question C6 **or** Question C7.
- Do **not** write in the bar codes.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is **100**.
- You will be awarded marks for the quality of written communication where an answer requires a piece of extended writing.
- Even when not specifically asked for, credit will be given for sketch maps, diagrams and examples of places which you have studied, providing they are relevant to your answer.
- These abbreviations are used:
  - EU – European Union which includes the United Kingdom
  - LEDC – Less Economically Developed Country.
  - MEDC – More Economically Developed Country.
- This document consists of **16** pages. Any blank pages are indicated.

## SECTION A: PLACES

**Answer TWO Questions from this section**

### Question A1

**This question is about places in the European Union (EU).**

Study Fig.1 below.

**Fig.1 Selected statistics for Poland**

Measure	2004	2008
Net Migration (immigration minus emigration)	−9382	−20 485
Purchasing power standard (EU average = 100)	50.7	53.6
% unemployment rate	19	12.8
Life expectancy (years)	70.6	75.4
% households with internet access	26	41
Infant mortality rate (per 1000)	6.8	6.9

- (a) In 2004 Poland joined the European Union. According to Fig. 1:
- (i) State **one** economic measure indicating that Poland is better off.
  - (ii) State **one** measure that suggests healthcare has improved. [2]
- (b) According to Fig. 1, state **two** measures to suggest that not everything in Poland has improved since 2004. [2]
- (c) Suggest **two** reasons why many people have recently migrated from Eastern European countries, such as Poland. [6]

Study Fig. 2 opposite.

- (d) In 2012 the European Football Championships are planned to be held in Poland. Explain **two** ways that this could promote regional economic change within Poland. [6]
- (e) For an international migration that you have studied involving at least one EU country:
- (i) Name the **two** countries involved in this migration;
  - (ii) Using specific detail, describe and explain the **effects** of the migration (the effects could be in either the origin or destination country or both). [9]

**[Total: 25 marks]**

Fig. 2 Planned road improvements in Poland for the 2012 European Football Championship



## Question A2

This question is about LEDCs.

Study Fig. 3 opposite.

- (a) According to Fig. 3:
- (i) Which continent contains the two countries with most population?
  - (ii) Which country has the highest infant mortality rate? [2]
- (b) Write **two** statements to summarise patterns shown by the scattergraph. [2]
- (c) Suggest **two** ways an aid charity such as Oxfam might use the scattergraph to make decisions about its aid programmes. [6]

Study Fig. 4 below

**Fig. 4 Cartoon about women and development in LEDCs**

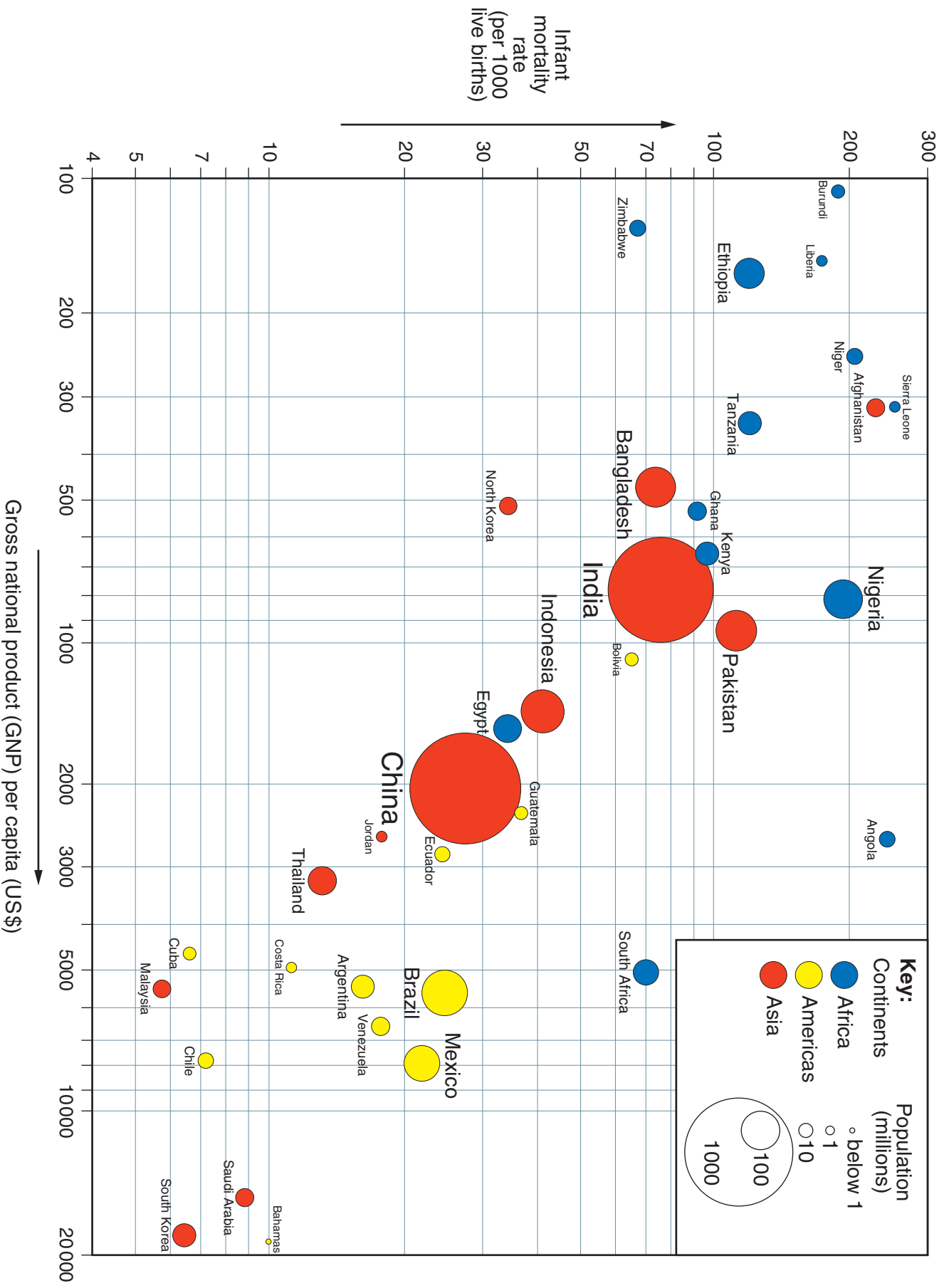


- (d) What messages might this cartoon communicate about development in LEDCs? [6]
- (e) For an LEDC development project that you have studied:
- (i) Name and locate the specific development project;
  - (ii) With reference to specific place detail, describe the main features of the project;
  - (iii) How sustainable is the development project? [9]

**[Total: 25 marks]**



Fig. 3 Scattergraph showing data for selected LEDCs (2006)



**Question A3**

**This question is about MEDCs (excluding the EU).**

Study Fig. 5 opposite.

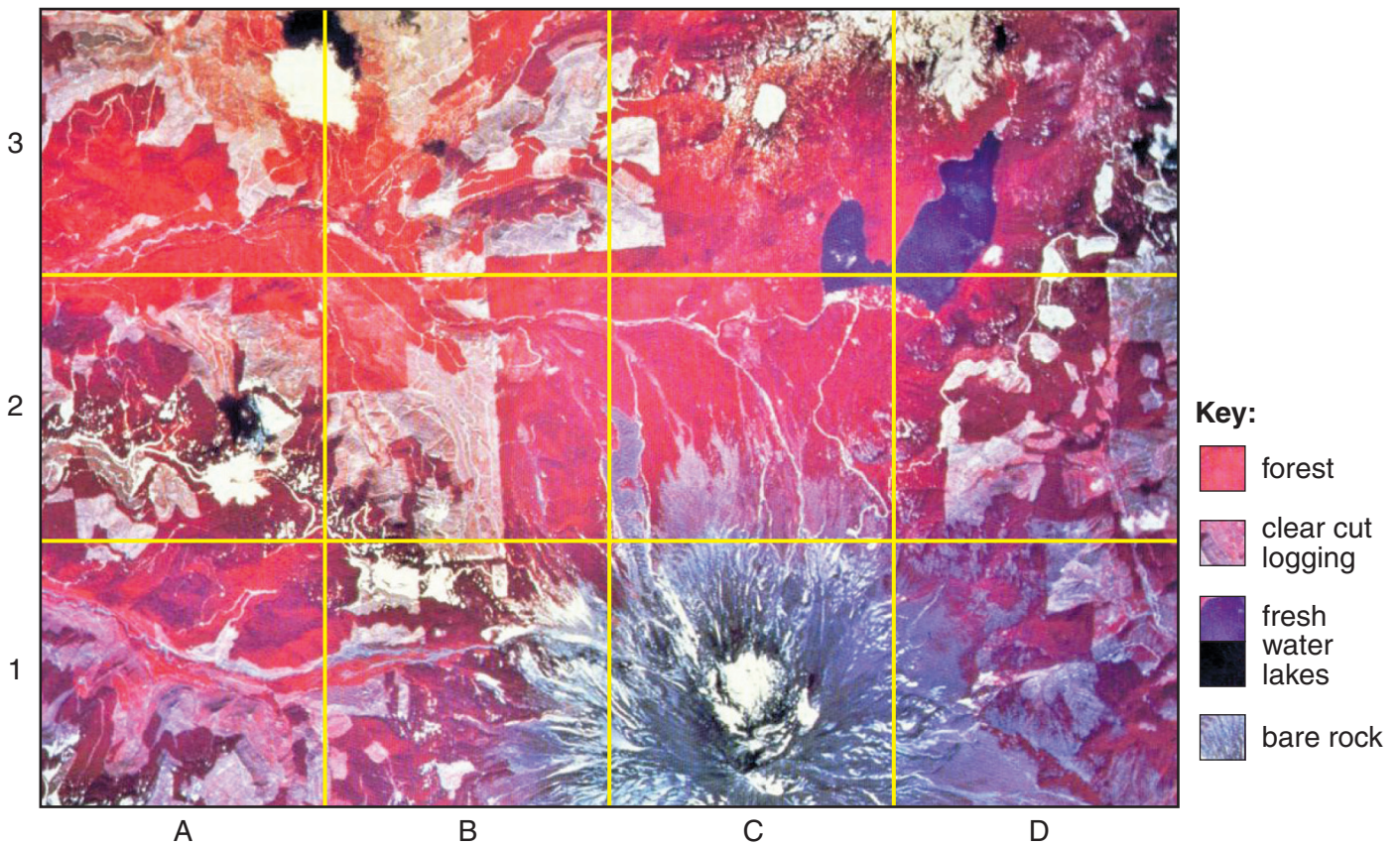
Mt St Helens is a volcano in NW USA that experienced a violent eruption on 18 May 1980.

- (a) (i) Identify the grid square containing the crater of the Mt St Helens volcano.
- (ii) What is the main economic activity taking place in C2? [2]
- (b) State **two** changes caused by the volcanic eruption to the physical landscape shown on Fig. 5. [2]
- (c) Identify and explain **two** ways that the 1980 volcanic eruption of Mt St Helens might have influenced land use. [6]
- (d) Mt St Helens is still an active volcano. Suggest **two** reasons why people in MEDCs choose to live close to natural hazards such as this despite the potential dangers. [6]
- (e) For a natural hazard event that you have studied in an MEDC (**outside the EU**):
  - (i) Name and locate the natural hazard event;
  - (ii) With reference to specific place detail, show the physical processes that caused the hazard and how human activities affected it. [9]

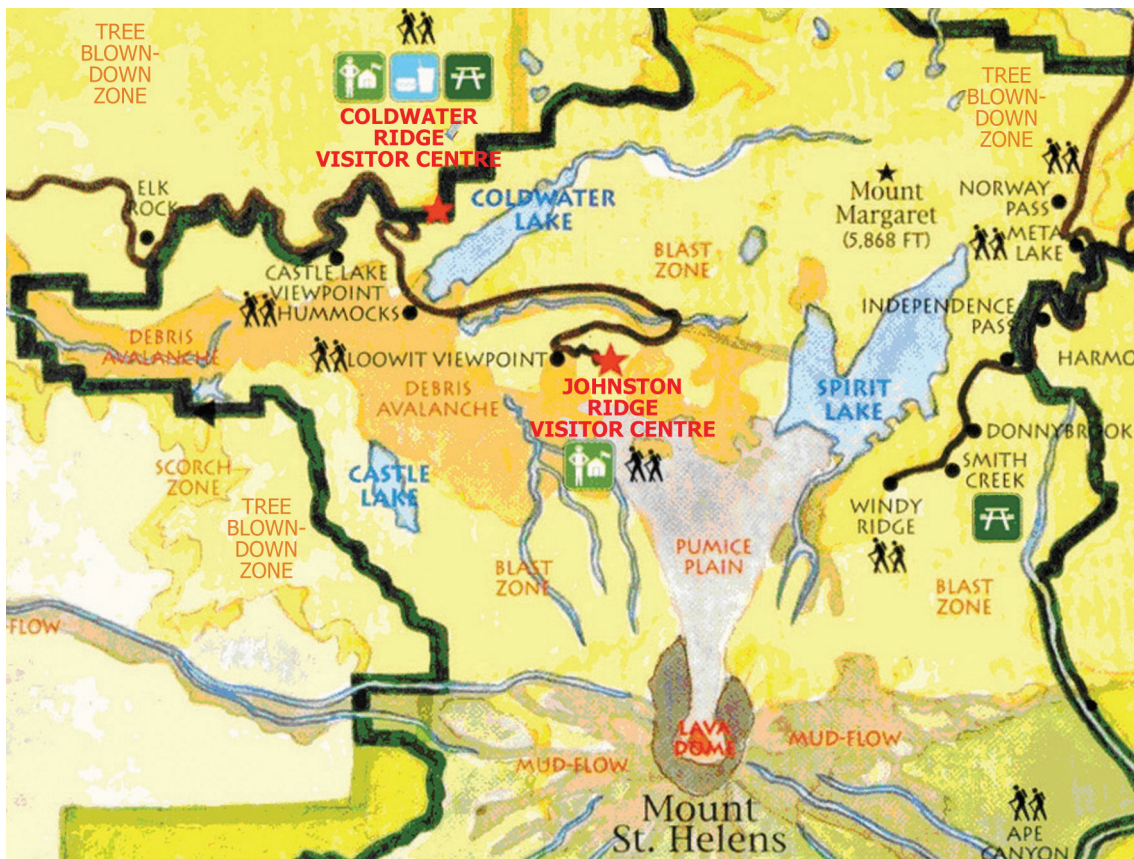
**[Total: 25 marks]**

Fig. 5 The area around Mt St Helens, NW USA, in 1980

(a) A satellite image before the volcanic eruption of 18 May 1980



(b) A map of the area after the volcanic eruption of 18 May 1980





## SECTION B: PHYSICAL THEMES

Answer EITHER Question B4 OR B5

### Question B4

This question is about **Physical Systems and Environments**.

Study Fig. 6 below.

**Fig. 6 A cartoon about global climate change**



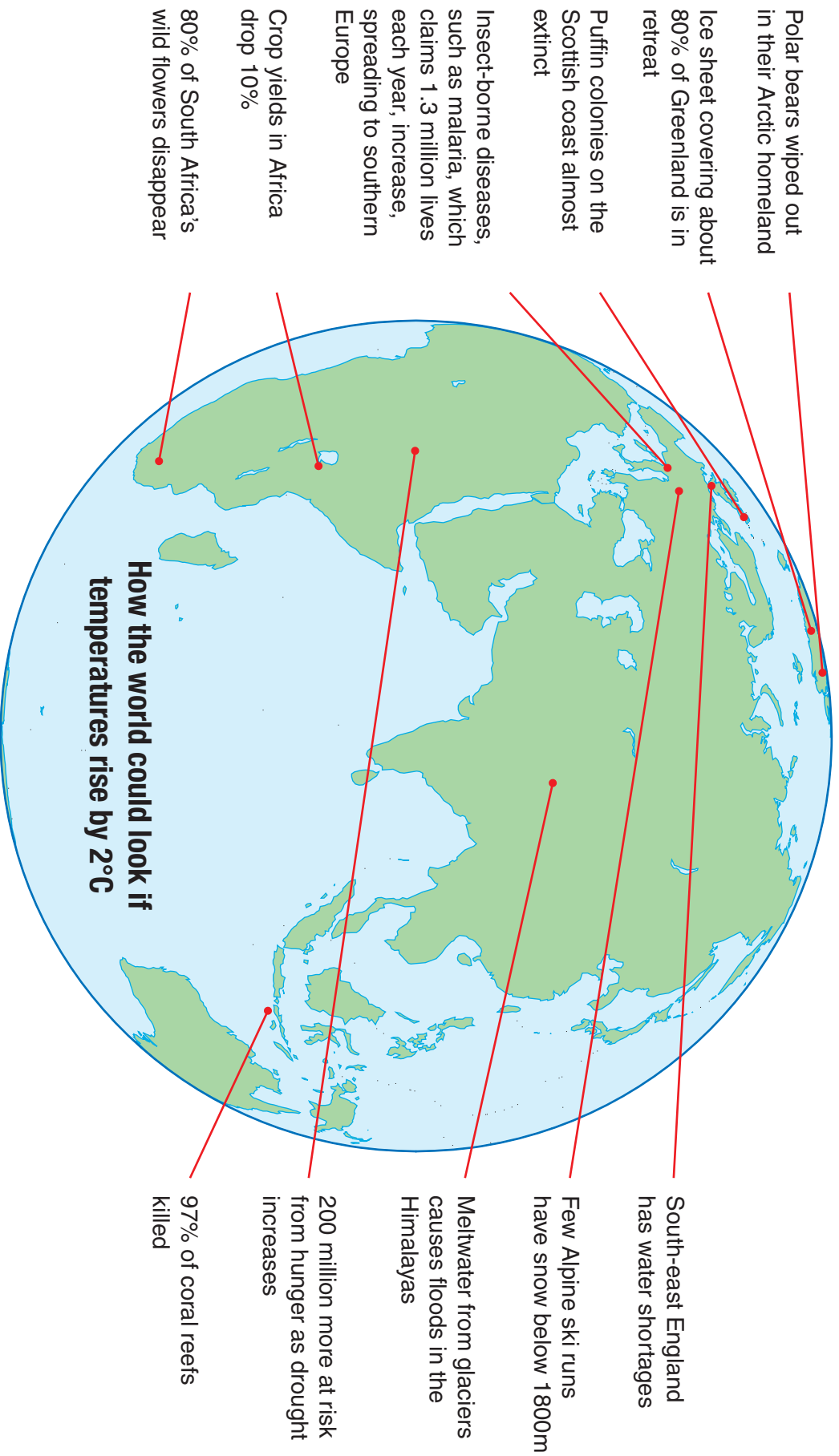
- (a) Name **two** greenhouse gases. [2]
- (b) Briefly state the mistake that the man in the cartoon is expressing. [2]

Study Fig. 7 opposite.

- (c) Explain **two** possible consequences for human activity shown by the predicted changes in Fig. 7. [6]
- (d) **Draw** an annotated diagram to show how greenhouse gases are thought to cause global warming (the 'greenhouse effect'). [6]
- (e) For a physical landscape that you have studied:
  - (i) Name and locate your chosen physical landscape;
  - (ii) Using specific detail, describe and explain the formation of **two** of the landforms that make up the physical landscape **at this specific location**. [9]

**[Total: 25 marks]**

**Fig. 7 Some possible consequences of global climate change**



**Question B5**

**This question is about Natural Hazards and People.**

Study Fig. 8 opposite.

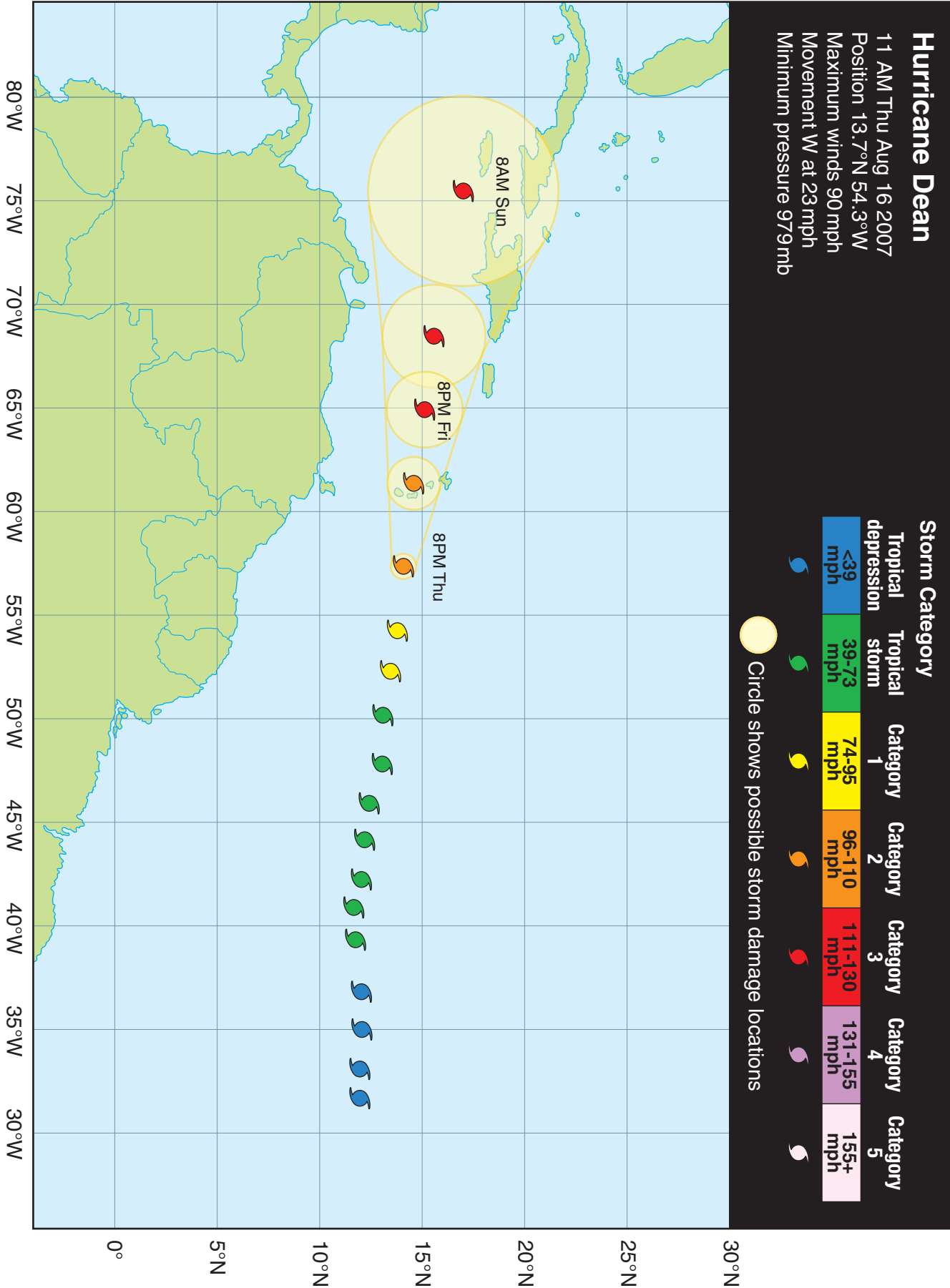
- (a) According to Fig. 8:
  - (i) In which direction was the hurricane (tropical storm) moving?
  - (ii) What was the highest predicted storm category for Hurricane Dean? [2]
- (b) Estimate the latitude and longitude of Hurricane Dean at 8 pm on Thursday. [2]
- (c) Explain **two** reasons why such storms have their origin in the tropics. [6]
- (d) Explain **two** reasons why the effects of tropical storms are usually worse in LEDCs than in MEDCs. [6]
- (e) In areas experiencing natural hazards, buildings often have special features to protect against the hazard.

For a natural hazard that you have studied:

- (i) State the natural hazard;
- (ii) With the aid of a diagram and using specific detail, explain how buildings are designed to help protect against this hazard. (An annotated diagram could be an acceptable form of answer for all the marks.) [9]

**[Total: 25 marks]**

Fig. 8 A weather map predicting the path of Hurricane Dean, August 2007





**SECTION C: HUMAN THEMES**

**Answer EITHER Question C6 OR C7**

**Question C6**

**This question is about Economic Systems and Development.**

Study the two OS map extracts on the separate sheet.

- (a)** State **two** changes to the main road network for Kettering between 1987 and 2007. **[2]**

Study Fig. 9 opposite.

- (b)** Latimer Park, an industrial estate, (circled on the 2007 map) has developed since 1987. Fig. 9 is a recent photograph of the site.

**(i)** What industrial land use was there in 1987?

**(ii)** From which direction was the photograph taken? **[2]**

- (c)** Latimer Park is home to two large companies, a Morrisons Distribution Centre (labelled **A** on the photograph) and Weetabix (labelled **B** on the photograph).

Using evidence from both the 2007 map and photograph, suggest **two** reasons why it is a good location for economic activity. **[6]**

- (d)** People living in Burton Latimer may have mixed views about Latimer Park. Explain **two** contrasting views that they might have. **[6]**

- (e)** For a specific example of an economic activity that you have studied at a **local** scale (for example a farm, factory or supermarket):

**(i)** Name and locate the specific economic activity;

**(ii)** **Draw** this example as a systems diagram using specific detail in each section. **[9]**

**[Total: 25 marks]**

Fig. 9 A recent photograph of the Latimer Park location



**Question C7**

**This question is about Population and Settlement.**

Study the two OS map extracts on the separate sheet.

- (a) The village of Pytchley is located to the south of Kettering.
  - (i) Give the six-figure grid reference for the crossroads in Pytchley.
  - (ii) Approximately how far in kilometres is Pytchley from the junction of the A14 with the A509? [2]
- (b) The OS map extracts show that the village of Pytchley has lost some services since 1987 and kept others. According to the maps:
  - (i) State **one** service that Pytchley has lost since 1987;
  - (ii) State **one** service that Pytchley has kept. [2]

Study Fig. 10 opposite.

- (c) What messages might the photographs communicate about living in a village? [6]
- (d) Give **two** reasons why people from Pytchley may travel regularly to Kettering town centre. [6]
- (e) For a settlement that you have studied:
  - (i) Name and locate the settlement;
  - (ii) Describe and explain the reasons for the location of the settlement. [9]

**[Total: 25 marks]**



Fig. 10 Two views within the village of Pytchley





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