

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

2403

Terminal Examination (Higher Tier)

WEDNESDAY 4 JUNE 2008

Morning
Time: 2 hours 15 minutes

Additional materials (enclosed): Resource Sheet (2403/RS)
OS Map Extract

Additional materials (required):
Answer booklet (12 pages)



INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the spaces provided on the Answer Booklet.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- 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.

INFORMATION FOR CANDIDATES

- The number of marks for each question 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** printed pages, an inserted resource sheet
and an inserted OS map extract.

SECTION A: PLACES

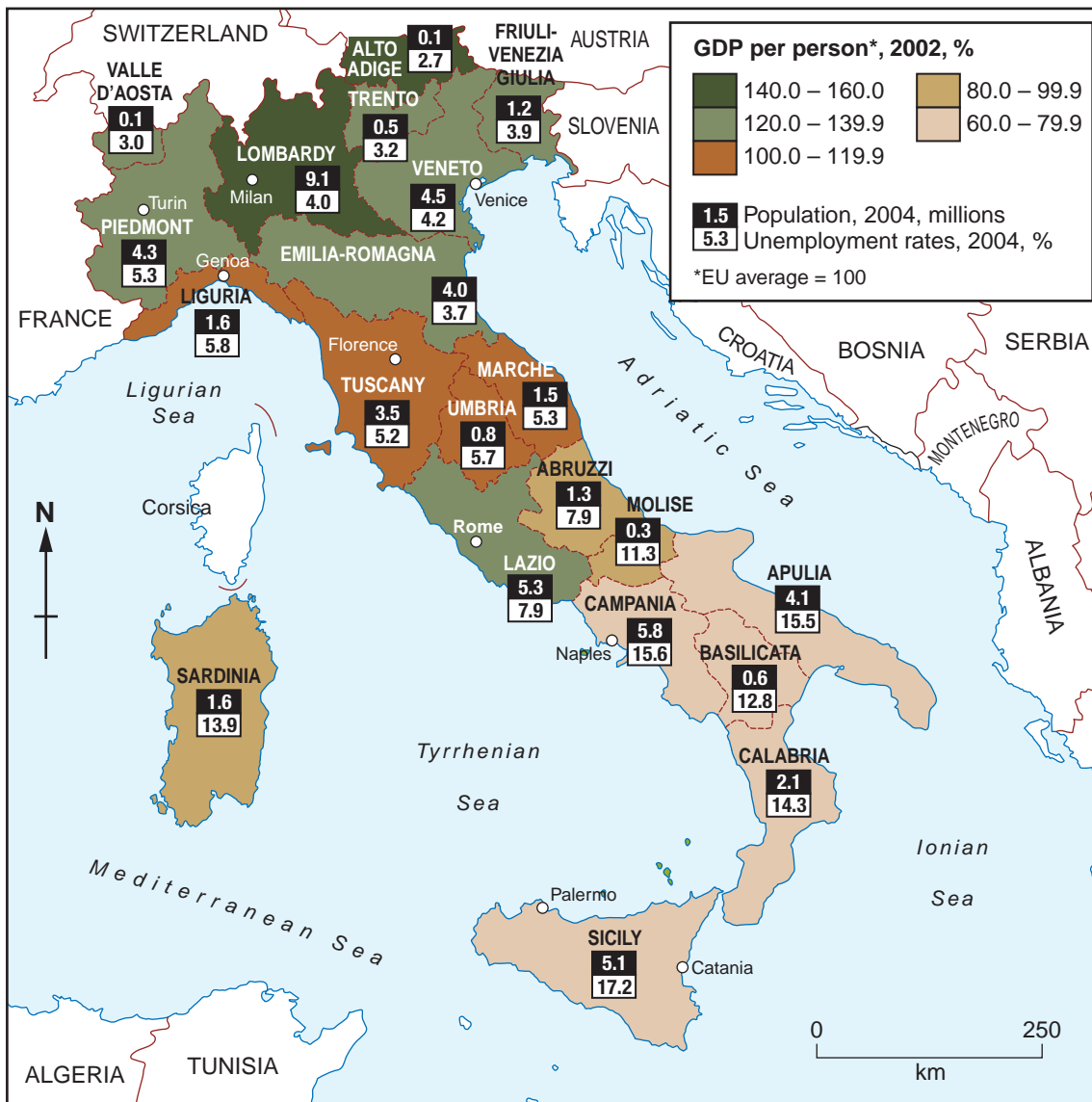
Answer TWO Questions from this section

Question A1

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

Study Fig. 1 below.

Fig. 1 Social and Economic Regional Data for Italy



Source: statistics from Eurostat

- (a) (i) Which region has the highest total population?
- (ii) Which region has the lowest percentage rate of unemployment? [2]
- (b) Briefly describe the regional pattern of GDP shown in Italy. [2]

- (c) Suggest **two** possible reasons why some regions in Italy experience growth, while others decline. [6]

Study Fig. 2 below.

Fig. 2 An Image of Italian Migration



© P & I Ltd.

- (d) What messages might this image communicate about regional differences in Italy? [6]
- (e) For a natural hazard event that you have studied within the EU:
- (i) Name and locate the natural hazard event;
 - (ii) With reference to specific place detail, describe the physical processes that caused the hazard and how human activities affected it. [9]

[Total: 25 marks]

Question A2

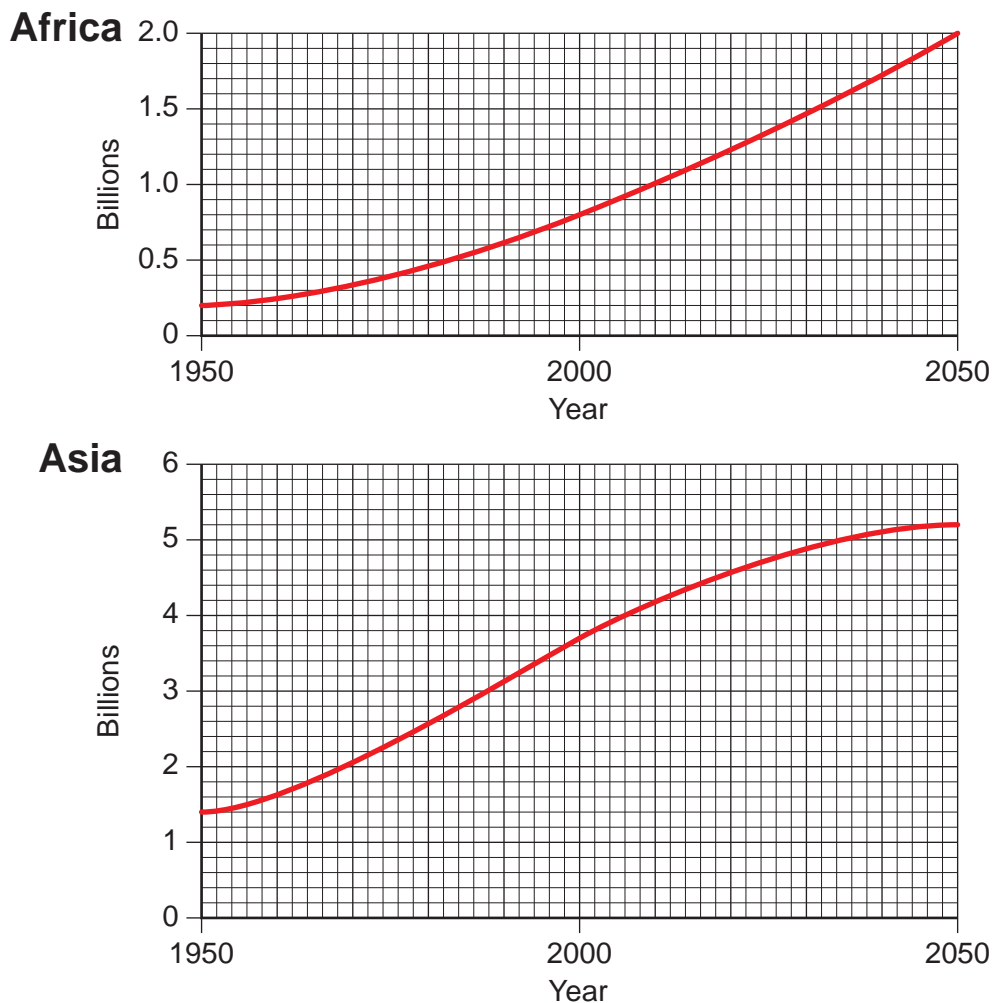
This question is about LEDCs.

Study Fig. 3 opposite.

- (a) Which **two** countries are estimated to have the highest population in 2050? [2]
- (b) State **two** difficulties experienced in using this cartogram. [2]

Study Fig. 4 below

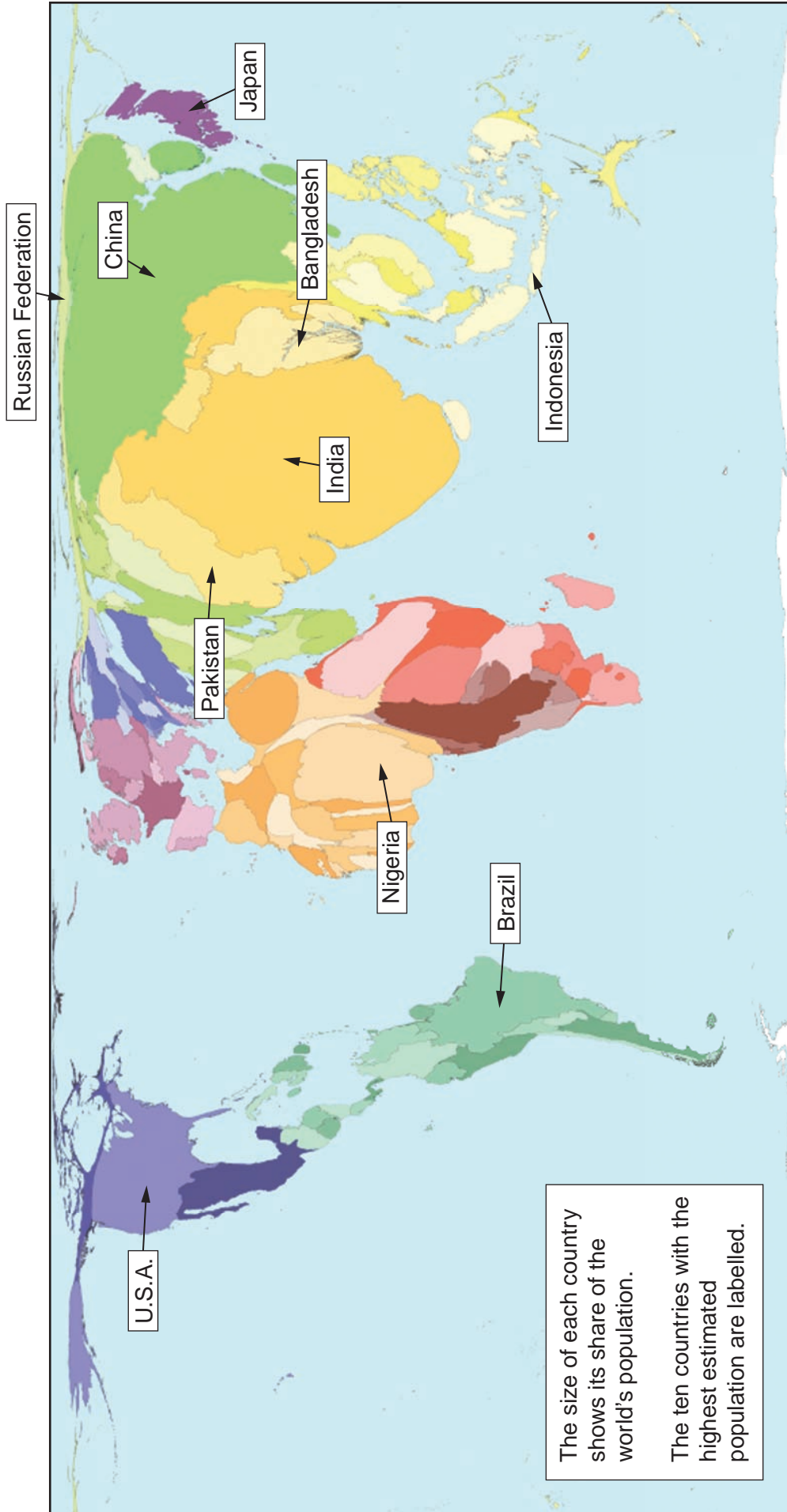
Fig. 4 Population Change in Africa and Asia



- (c) Describe **one** positive and **one** negative effect of the rise in population shown in Fig. 4. [6]
- (d) Explain **two** reasons why birth rates are usually higher in LEDCs than in MEDCs. [6]
- (e) For an LEDC where you have studied population distribution:
- Name the LEDC;
 - With reference to specific place detail, describe and explain the pattern of population distribution. (An annotated sketch map would be an acceptable form of answer). [9]

[Total: 25 marks]

Fig. 3 A cartogram showing estimated World Population by Country for 2050

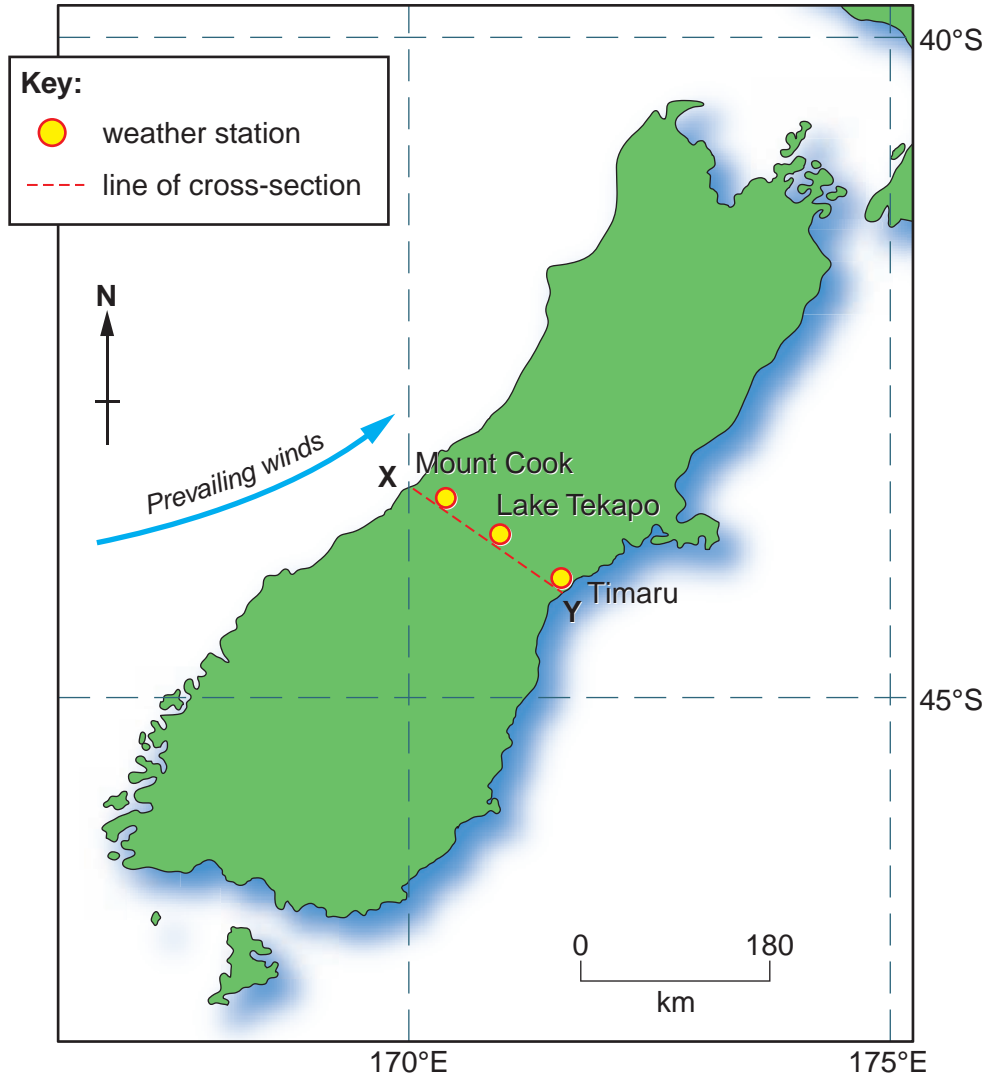


Question A3

This question is about MEDCs (excluding the EU).

Study Fig. 5 below.

Fig. 5 Rainfall Variations across South Island, New Zealand



Weather Station	Distance from West Coast (km)	Height above Sea Level (metres)	Total Annual Rainfall (mm)
Mount Cook	35	3753	4293
Lake Tekapo	85	762	600
Timaru	180	17	573

(a) Estimate the latitude and longitude of the weather station at Timaru. [2]

(b) Describe how total annual rainfall changes across South Island. [2]

- (c) On the Insert (2403/RS), annotate the cross-section **X–Y** to explain why the places shown have different amounts of rainfall. [6]

Study Fig. 6 below.

Fig. 6 An Aerial Photograph of central South Island, New Zealand



Source: NZSO.com – the xoops project

- (d) Use the photograph to help explain **two** ways that the physical landscape is likely to have influenced economic activity. [6]
- (e) For **two** contrasting regions that you have studied **within** an MEDC (**outside the EU**):
- (i) Name and locate the two contrasting regions within the country;
 - (ii) With reference to specific place detail, describe **three** geographical differences between your chosen regions. [9]

[Total: 25 marks]

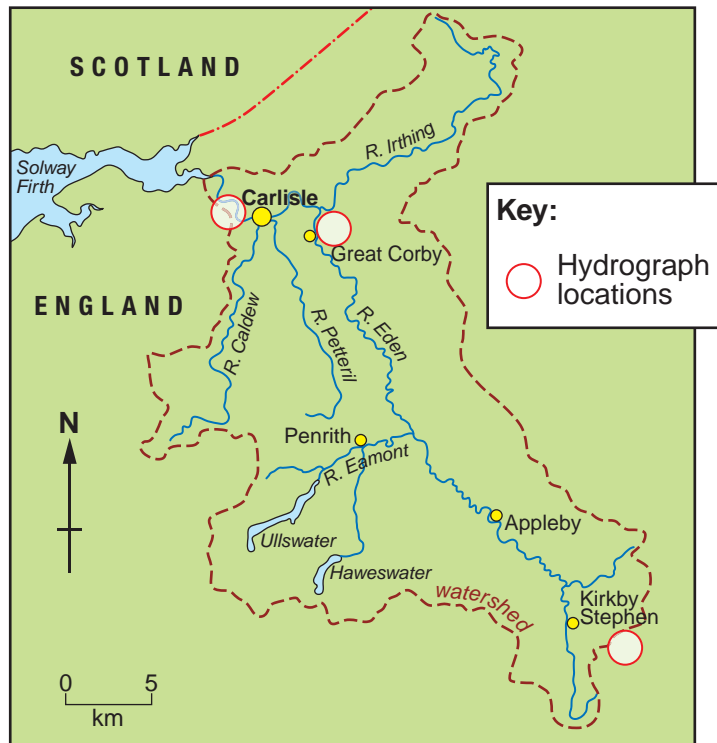
SECTION B: PHYSICAL THEMES**Answer EITHER Question B4 OR B5****Question B4****This question is about Physical Systems and Environments.**

Study Fig. 7 opposite.

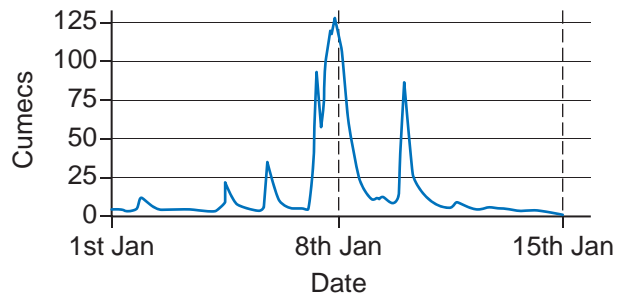
- (a) (i) Name the main input into the river basin system.
- (ii) Name **one** store shown on the map. [2]
- (b) There was an extreme rainfall event on 6th January.
- (i) According to Fig. 7, which storm hydrograph recorded the highest discharge?
- (ii) According to Fig. 7, which storm hydrograph shows the longest lag time? [2]
- (c) Identify which is the hydrograph for Kirkby Stephen.
Using map evidence, give **two** reasons to justify your choice. [6]
- (d) Suggest **two** ways that human activities might have contributed to the high discharge at Carlisle. [6]
- (e) For a type of climate that you have studied:
- (i) Name and locate the type of climate that you have chosen;
- (ii) Using specific detail, describe and explain its main climatic features. [9]

[Total: 25 marks]

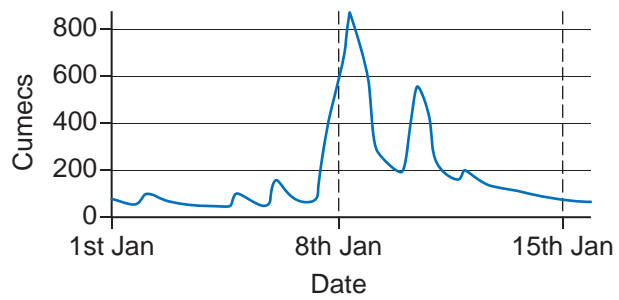
Fig. 7 The River Eden Drainage Basin and selected Hydrographs, January 2005



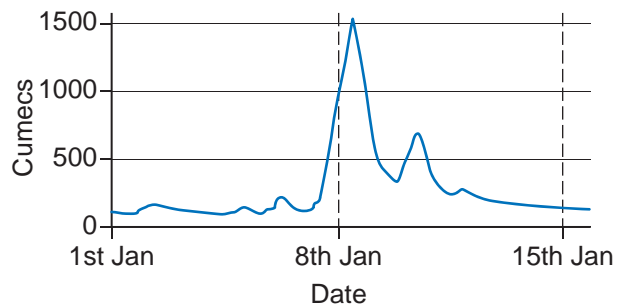
Hydrograph X



Hydrograph Y



Hydrograph Z



Source: Geo Factsheet

Question B5

This question is about Natural Hazards and People.

Study Fig. 8a and Fig. 8b below.

Fig. 8a The World's Ten Deadliest Volcanic Eruptions

Map	Volcano	Country	Year	VEI	Deaths	Main cause(s) of death
1	Tambora	Indonesia	1815	7	92 000	pyroclastic flows, famine
2	Krakatoa	Indonesia	1883	6	36 417	tsunamis
3	Pelée	Martinique	1902	4	29 025	pyroclastic flow
4	Nevada del Ruiz	Colombia	1985	3	25 000	lahars
5	Unzen	Japan	1792	0	14 524	tsunami
6	Laki	Iceland	1783	4	9 350	famine
7	Kelut	Indonesia	1919	4	5 100	lahars
8	Santa Maria	Guatemala	1902	3	5 000	pyroclastic flow
9	Galunggung	Indonesia	1822	5	4 011	lahars
10	Vesuvius	Italy	1631	4	3 500	pyroclastic flow

VEI = Volcanic Explosivity Index

Fig. 8b Global Locations of the World's Ten Deadliest Volcanic Eruptions



Key:



global location of volcanoes



tectonic plate boundaries/margins

- (a) Describe the location of the greatest concentration of the world's ten deadliest volcanic eruptions. [2]
- (b) State **two** types of plate boundary (margin) where volcanic eruptions are usually located. [2]
- (c) **Draw** a simple annotated diagram to show how the movement of plates can cause volcanic eruptions. [6]
- (d) Explain **two** reasons why some volcanic eruptions kill more people than others. [6]
- (e) For a natural hazard that you have studied;
- (i) State the natural hazard;
 - (ii) Using specific detail, describe the measures of hazard protection used;
 - (iii) How successful have the protection methods been? [9]

[Total: 25 marks]

SECTION C: HUMAN THEMES

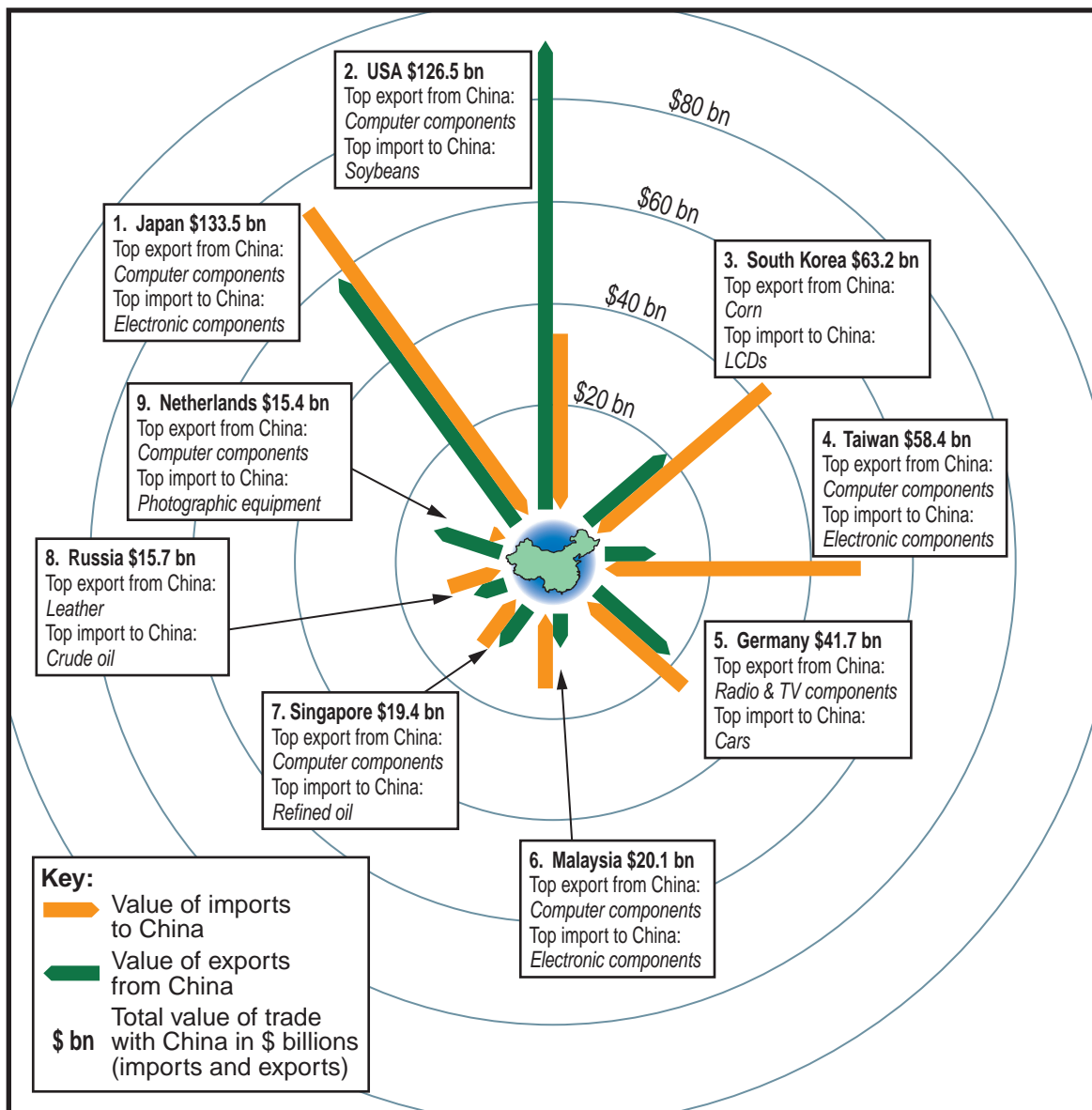
Answer EITHER Question C6 OR C7

Question C6

This question is about Economic Systems and Development

Study Fig. 9 below.

Fig. 9 China's Top Nine Trading Partners



Source: adapted from Geo Factsheet

- (a) (i) From which country does China receive most imports by value?
 (ii) To which country does China export most by value?

[2]

- (b) According to Fig. 9, which product is:
- (i) The top export from China?
 - (ii) The main food import to China? [2]
- (c) Suggest **two** reasons why China trades more with some countries than with others. [6]
- (d) This summer the 2008 Olympic Games will be held in Beijing, the capital city of China. Suggest **two** ways that this might affect the quality of life of local people. [6]
- (e) For an area that you have studied (this could be at a global, national, regional or local scale) choose an economic activity that is changing:
- (i) Name the specific economic activity and the scale of study;
 - (ii) With reference to specific detail, describe and explain **recent** changes in your chosen economic activity. [9]

[Total: 25 marks]

Question C7

This question is about Population and Settlement.

Study the OS map extract on the separate sheet and Fig. 10 opposite.

- (a) (i) Give a four-figure grid reference for the Albert Dock (labelled A).
(ii) Name the railway station at grid reference 342903. [2]
- (b) For 2008 Liverpool is the 'European City of Culture'.
State **two** pieces of map evidence for cultural attractions in Liverpool. [2]
- (c) Photographs **A** and **C** show two types of inner city housing in Liverpool. Use evidence to help describe differences between these two residential environments. [6]
- (d) Explain **two** reasons why the Paradise Street Area (labelled D) is a good location to be developed for retailing. [6]
- (e) For a settlement that you have studied where there has been population change:
(i) Name and locate the settlement;
(ii) With reference to specific detail, describe and explain the issues associated with this change. [9]

[Total: 25 marks]

Fig. 10 An Advertisement for the City of Liverpool



© iStockphoto.com / Marco Prandina

Waterfront

- Iconic image of an international city

Photo A



© iStockphoto.com / Marco Prandina

World Heritage Site

- A symbol of the city's fantastic built heritage

Capital of Culture

- Frantic development activity in the run up to 2008

Photo B



© John Bentley / Alamy

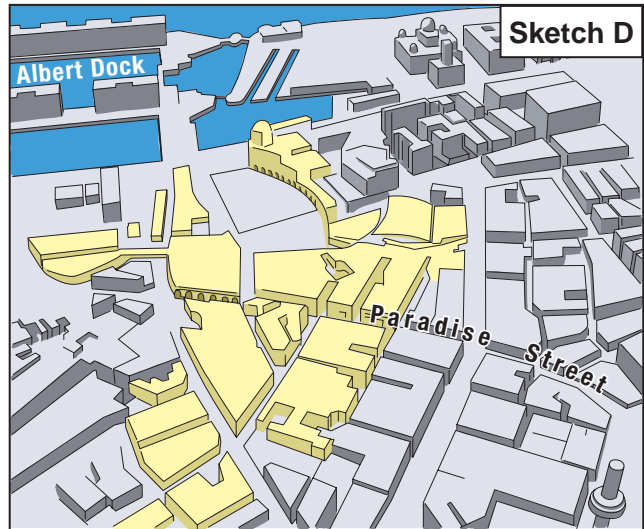


Photo C



© Philip Wolmuth / Alamy

Paradise Street

- Over 1m sq-ft of new retailing
Up to 80 detailed applications awaited

Housing Market Collapse

- Big job to do in restructuring failing housing areas

Adapted from Planning Advertisement for Liverpool City Council

Copyright Acknowledgements:

Fig.1 data	Source: <i>Eurostat</i> © European Communities, 1995-2007
Fig. 2	P & I Ltd, www.pipages.co.uk
Fig. 3	© Mark Newman and SASI, www.worldmapper.org
Fig. 6	Source: NZSC.com – the xoops project
Fig. 7	Source: Geo Factsheet, Number 189, January 2006, www.curriculum-press.co.uk
Fig. 9	Source: adapted from Geo Factsheet, <i>The global environmental and economic impact of the rise of China</i> , www.curriculum-press.co.uk
Fig. 10 (top)	© iStockphoto.com / Marco Prandina
Fig. 10 photo A	© iStockphoto.com / Marco Prandina
Fig. 10 photo B	© John Bentley / Alamy
Fig. 10 photo C	© Philip Wolmuth / Alamy

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