

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
 CENTRE NUMBER	CANDIDATE NUMBER	
GEOGRAPHY Paper 1		0460/11 May/June 2011 1 hour 45 minutes
Candidates ans Additional Mate	wer on the Question Paper. rials: Ruler	

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided. Write in dark blue or black pen. You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid. DO NOT WRITE ON ANY BARCODES.

Write your answer to each question in the space provided.

If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.

Answer three questions. The Insert contains Photographs A and B for Question 1. The Insert is **not** required by the Examiner. Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of 25 printed pages, 3 blank pages and 1 Insert.



[Turn over



(a) Study Fig. 1, which shows densely and sparsely populated areas in the world.

Fig. 1

(i) What is meant by a *densely populated* area?[1] (ii) Name a densely populated area shown on Fig. 1: Α with a temperate climate; В in South East Asia.[2] (iii) For either the area marked X or the area marked Y on Fig. 1, suggest reasons why it is sparsely populated. Area chosen[3]

QUESTION 1

- (b) Study Photographs A and B (Insert) which show two areas which are sparsely populated.
 - (i) Suggest reasons why the area shown in Photograph A is sparsely populated.

	[3]
<i>/</i> >	
(ii)	Suggest how the relief of the land shown in Photograph B has resulted in the area being sparsely populated.
	[4]
(iii)	Explain why some river valleys are densely populated.
	[5]

(c) For a named country which you have studied, describe and explain the distribution of its population.

Name of country
[7]
[Total: 25 marks]

(a) Study Fig. 2, which shows information about three different shops in a city in an MEDC.



Results of pupil questionnaire comparing frequency of visits to shops (% of customers interviewed)

	daily	weekly	every 2 weeks	monthly or less frequently
Large supermarket	0	56	34	10
General store	35	35	15	15
Department store	0	10	16	74

Fig. 2

- (i) Identify the shop which is likely to have the smallest sphere of influence.
 -[1]
- (ii) Compare the frequency of visits to the large supermarket with the frequency of visits to the department store.

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- (b) Study Fig. 3, which shows information about the population and number of shops in towns in an MEDC.



Fig. 3 0460/11/M/J/11

(i) What relationship exists between the population of towns and the number of shops? Use data from Fig. 3 in your answer.

	[3]
(ii)	In what other ways will the shops and shopping areas in town ${\bf X}$ differ from those in town ${\bf Y}?$
	[5]

(c)	Describe the hierarchy of settlements in a named country or area which you have studied.
	Country or area
	[7]
	[Total: 25 marks]

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TURN OVER FOR QUESTION 3

(a) Study Fig. 4, which shows four instruments which students are using to measure the weather at a school weather station.



Fig. 4

(i)	Which weather characteristic will the students measure with instrument A?	
		[1]
(ii)	Identify the weather instruments labelled B and C .	
	Instrument B	
	Instrument C	[2]
(iii)	Use instrument ${f D}$ to work out the daily range of temperature. Show your calculations.	
		[3]
(iv)	Explain why instrument B will give more accurate readings if it is sited on the roof of t school, rather than in the playground.	he
(iv)		
(iv)	school, rather than in the playground.	
(iv)	school, rather than in the playground.	
(iv)	school, rather than in the playground.	
(iv)	school, rather than in the playground.	
(iv)	school, rather than in the playground.	
(iv)	school, rather than in the playground.	
(iv)	school, rather than in the playground.	

(b) Study Fig. 5, which shows a Stevenson Screen which the students will use in their school weather station.





(i)	Identify the characteristics of the Stevenson Screen which:		
	Α	reflect the sun's rays;	
	В	allow free flow of air;	
	С	ensure that the thermometers inside it measure the temperature of the air not	
		the ground	
		[3]	

(ii) What advice would you give the students about where to site the Stevenson Screen? Give reasons for your answer.

	[5]
(c)	Name an area which you have studied where tropical storms occur. Describe the problems which they cause for people living in your chosen area.
	Describe the problems which they cause for people living in your chosen area.
	Name of area
	[7]

[Total: 25 marks]

(a) Study Fig. 6, which is a climate graph for Belem, a settlement in the tropical rainforest.



Fig. 6



Describe the characteristics of the natural vegetation in a tropical rainforest.

(b) Study Fig. 7, which shows deforestation of an area of tropical rainforest.





(i) Suggest **three** reasons why large scale deforestation of the tropical rainforest is taking place.

	1
	2
	3
	[3]
(ii)	Describe the impacts of deforestation on the natural environment of the tropical rainforest.
	[5]

[Total: 25 marks]

- Ν • ° 000 Tropic of Cancer Mauritania Mali Niger Chad °°° Eritrea Sudan Senegal Ethiopia Burkina Somalia Faso Equator Rwanda £ Central Kenya African Tanzania Republic Mozambique Angola Key Zambia Tropic of Countries Capricorn experiencing Zimbabwe a food .esotho 0 1000 shortage km
- (a) Study Fig. 8, which is a map showing countries in Africa experiencing food shortages.



(i) Describe **one** problem which a shortage of food can cause for people.

(ii) Describe the distribution of countries in Africa which are facing a food shortage.

(iii)	Give three different natural events which could cause food shortages.
	1
	2
	3
	[3]
(iv)	Explain why a poor harvest of food crops is likely to have a greater impact on an LEDC in Africa than an MEDC in Europe.
	[4]



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Explain how soil can be damaged by:			
Α	overgrazing;		
в	overcultivation;		
С	irrigation		
		[3]	

4 L (i) F

	(ii)	Explain how the quality of the soil can be maintained and soil erosion reduced.
		[5]
(c)		ne an area where large-scale commercial farming takes place.
		cribe the inputs, processes and outputs of this farming system.
	Nan	ne of area
		[7]
		[Total: 25 marks]

(a) Study Fig. 10, which shows different types of pollution.



(iii)	Explain why, in many countries, industrial waste is released into rivers, lakes and seas.				
	[3]				
(iv)	Give one global problem which can be caused by atmospheric pollution. Explain how atmospheric pollution can cause this problem.				
	Name of problem				
	[4]				

(b) Study Fig. 11, which shows newspaper extracts about two proposed new developments in an LEDC in Central America.

Extract 1



Extract 2

PLANS ANNOUNCED TO BUILD NEW INCINERATOR

A multi-national company plans to build a waste recycling plant and an incinerator to burn household rubbish on a site on the edge of the city of

Fig. 11

(i) Choose **one** of the proposed new developments and write down the number of the extract which you have chosen. Explain **three** different ways in which the proposed development could damage the local natural environment.

Name of development
1
2
3
[3]

(ii)	Suggest what could be done to ensure that your chosen development is sustainable.				
	[
) For sup	For a named country or area which you have studied, describe the ways in which energy supplies are being developed.				
Nan	ne of country or area				

[Total: 25 marks]

Additional Page

If you use the following lined page to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

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