

## **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	

GEOGRAPHY 0460/01

Paper 1 Geographical themes

For Examination from 2016

SPECIMEN PAPER

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Calculator

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 an HB pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES

Write your answer to each question in the space provided.

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

Answer three questions, each from a different section.

The Insert contains Photographs A, B and C for Question 2, Photograph D for Question 3 and Figs 8A and 8B for Question 5.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.

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

This document consists of 28 printed pages, 2 blank pages and 1 Insert.



## **Section A**

Answer one question from this section.

**1 (a)** Study Fig. 1, which shows population density in Mali (a country at a lower level of development in Africa).

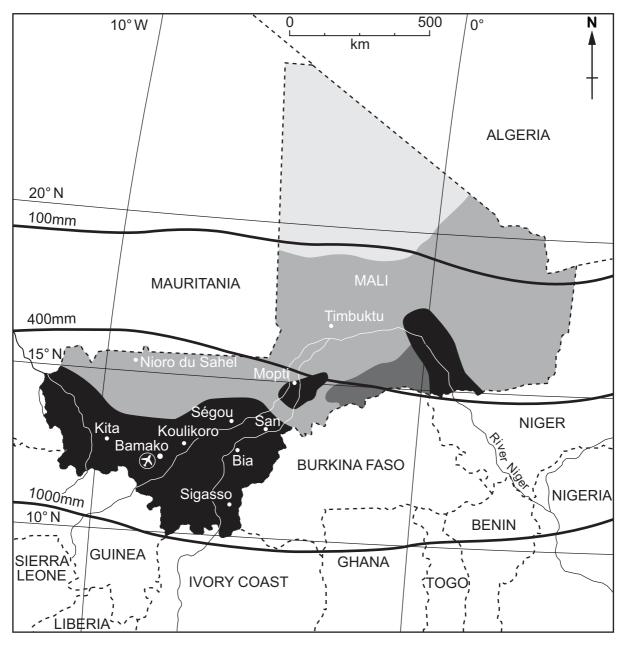




Fig. 1

(i)	Which part of Mali has the lowest population density?
	[1
(ii)	Describe <b>two</b> features of the location of areas where population density is ove 10 people per square kilometre.
	1
	2
	[2
(iii)	Suggest reasons why the population of Mali is unevenly distributed.
	[3

**(b)** Study Fig. 2, which shows population statistics for Mali between 2000 and 2005.

year	birth rate	death rate	net migration	life expectancy
2000	49.23	19.10	- 0.37	46.66
2001	48.79	18.71	- 0.36	47.02
2002	48.37	18.32	- 0.35	47.39
2003	47.79	19.21	- 0.34	45.43
2004	47.29	19.12	- 0.33	45.28
2005	46.77	19.05	- 0.33	45.09

Fig. 2

(i)	Calculate the population growth of Mali in 2005. You must show how you worked out your answer.
	[3]
	[0]
(ii)	Explain why birth rates are still high in countries at a lower level of development such as Mali.
	[4]

	(iii)	Describe and suggest reasons f and 2005.	or the changes in life exp	ectancy in Mali between 2000
				[5]
(C)	cou	oose any example of internation ntries between which people mo rate. You should refer both to pull	oved. Explain why many	
		·	·	
		ernational migration chosen <b>from</b>	·	to
		·	·	to
		·	·	to
		·	·	to
		·	·	to
	Inte	·		
	Inte	ernational migration chosen <b>from</b>		
	Inte	ernational migration chosen <b>from</b>		
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	Inte	ernational migration chosen <b>from</b>		
	Inte	ernational migration chosen <b>from</b>		
	Inte	ernational migration chosen <b>from</b>		
	Inte	ernational migration chosen from		

[Total: 25 marks]

**2** (a) Study Fig. 3, which shows the location of the CBD and two modern shopping centres in Sheffield, a city in the UK.

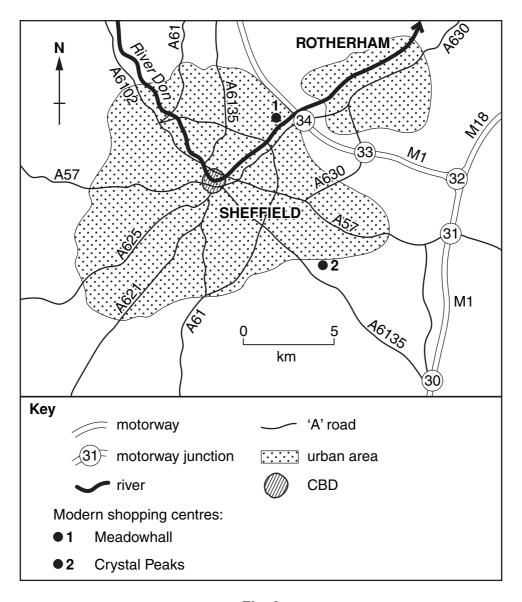


Fig. 3

(i)	What is meant by the initials CBD?
	[1]
(ii)	Meadowhall and Crystal Peaks are modern shopping centres. Identify <b>one</b> similarity and <b>one</b> difference between their locations.
	[2]

(iii)	Use evidence from Fig. 3 to suggest reasons for the location of Crystal Peaks shopping centre.
	[3]

**(b)** Study Fig. 4, which shows a hierarchy of settlements and services, and Photographs A, B and C (Insert).

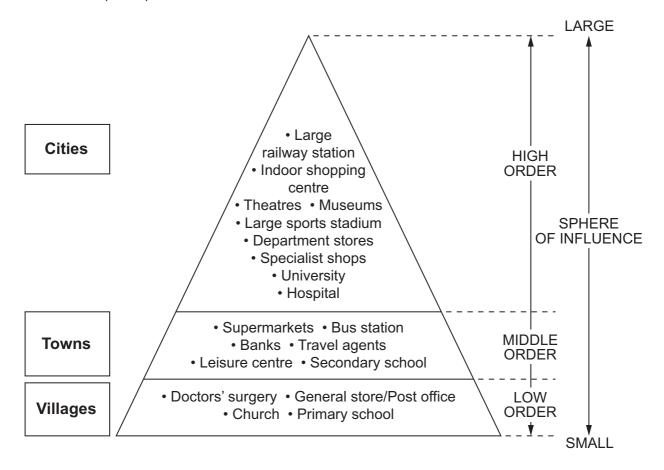


Fig. 4

tne servi	ces shown.			
Α				
В				

(i) Photographs A, B and C (Insert) were taken in three different types of settlement. For each photograph, state whether it was taken in a city, a town or a village, judging by

(ii)	Use the information in Fig. 4 to explain what is meant by <i>hierarchy of settlements services</i> .	and
		[4]
(iii)	Explain why people travel further for some shops and services than for others.	
		[5]

(c)	The building of new housing, roads and services often results in urban sprawl.
	Name an example of a town or city which you have studied where urban sprawl has taken place. Describe its effects on people and the natural environment.
	Name of town or city
	[7]
	[Total: 25 marks]

**TURN OVER FOR QUESTION 3** 

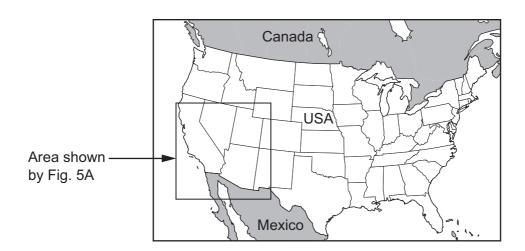
# **Section B**

Answer one question from this section.

**3 (a)** Study Fig. 5A, which shows the location of the Mojave Desert, along with Fig. 5B, a graph showing its climate.



Fig. 5A



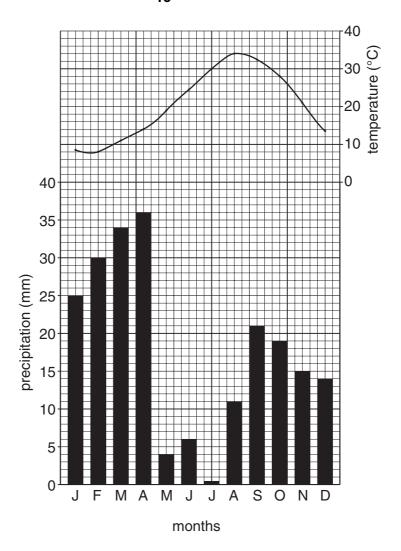


Fig. 5B

(i)	Estimate the total annual precipitation in the Mojave Desert.
	[1]
(ii)	What is the annual temperature range in the Mojave Desert? You must show how you worked out your answer.
	[2]

(	(iii)	Describe the location of the Mojave Desert.	
			[3]
(	(iv)	Explain why tropical desert areas, such as the Mojave Desert, are hot and dry. You muse labelled diagrams or sketch maps in your answer.	ay
			41111
			[4]
(b)	Stu	dy Photograph D (Insert), which shows vegetation in part of the Mojave Desert.	
	(i)	Describe the main features of the vegetation shown in Photograph D.	
			41111
			[31

	(11)	Explain the effects of climate on the natural vegetation in tropical desert areas.	
			•••
		[5	5]
(c)	Mar rain	ny areas of natural vegetation are at risk from deforestation. Name an area of tropical forest which you have studied and explain the causes and effects of deforestation.	al
	Na	me of area of tropical rainforest	
			•••
			•••
			•••
			•••
			•••
		[7	7]

4 (a) Study Fig. 6, a map showing the drainage basin of the River Lee in the south of the UK.

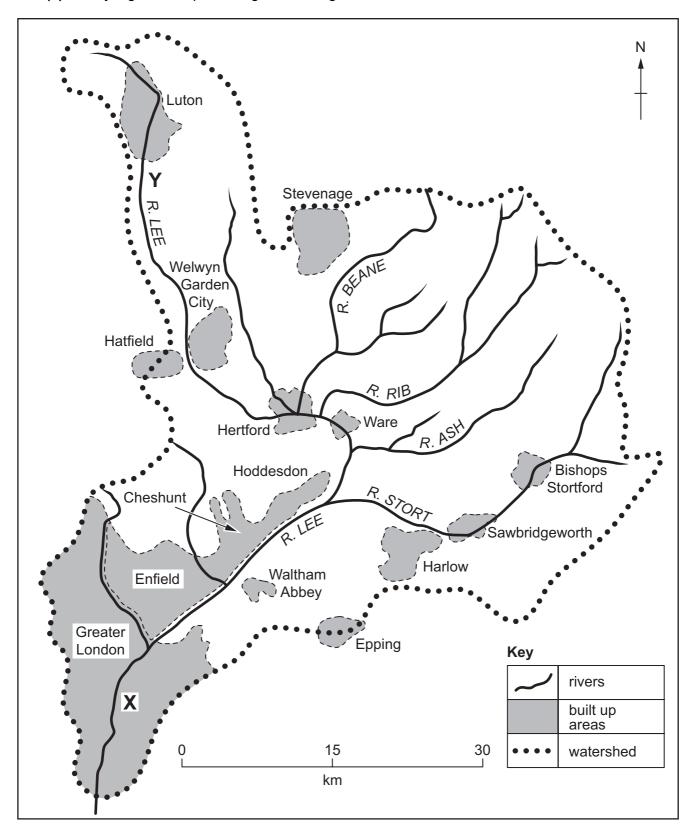


Fig. 6

(i)	Name a tributary of the River Lee.	F41
(ii)	Give <b>two</b> reasons why the amount of water in the river is greater at <b>X</b> than <b>Y</b> .  1	[1]
	2	
(iii)	Suggest <b>three</b> likely differences between the shape of the river <b>valley</b> at <b>X</b> and at <b>Y</b> .  1	
	2	
	3	
(iv)	Explain how the River Lee might bring both benefits and problems for people who live Hertford.	
		[4]

**(b)** Study Fig. 7, a diagram showing a waterfall and gorge.

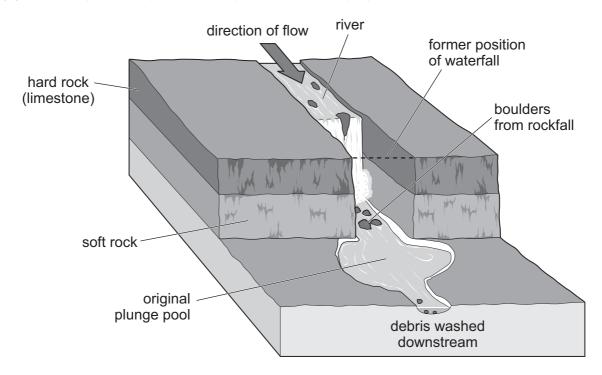


Fig. 7

(i)	The river is eroding by hydraulic action, corrasion (abrasion) and corrosion
	Define each of these terms.

Hydraulic action	
Corrasion (abrasion)	
Corrasion (abrasion)	
Corrosion	
[3	31

(ii)	Explain how the waterfall and gorge shown in Fig. 7 have been formed.
	15.
	13

(c)	Explain how an oxbow lake is formed. You should include fully labelled diagram(s).

[7] [Total: 25 marks]

# **Section C**

Answer one question from this section.

5	dy Fig. 8A (Insert), which shows information about the physical geography of New land, along with Fig. 8B (Insert), which shows information about pastoral farming in New land.	
	(i)	What is meant by pastoral farming?
		[1]
	(ii)	Using Fig. 8B (Insert), identify a region:
		A where more dairy cattle are kept per square kilometre than beef cattle;
		[1]
		B which is one of the most important sheep farming regions in New Zealand.
		[1]
	(iii)	Use evidence from Fig. 8B (Insert) to identify differences in farming between Taranaki and Hawke's Bay.
		[3]
	(iv)	Suggest reasons why more cattle are kept on North Island than on South Island.
		[4]

(b) Study Fig. 9, which shows the location of meat processing factories in New Zealand.

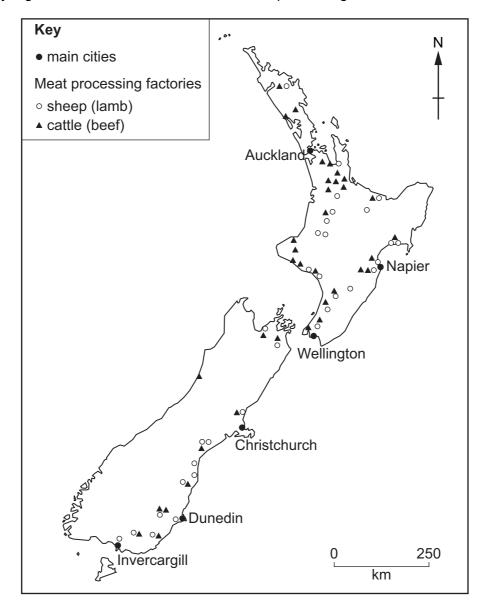


Fig. 9

)	Describe the distribution of meat processing factories in New Zealand.
	[3]

(ii)	Suggest reasons for the distribution of meat processing factories in New Zealand.
	[5]

(c) Economic development may cause problems for the natural environment.

For an area you have studied explain how the environment is at risk from economic development.
Name of area
[7]
[Total: 25 marks]

**TURN OVER FOR QUESTION 6** 

**6 (a)** Study Fig. 10, a scatter graph which shows the relationship between GDP and the percentage of population with access to safe water in ten countries.

GDP is an indicator of the wealth of a country.

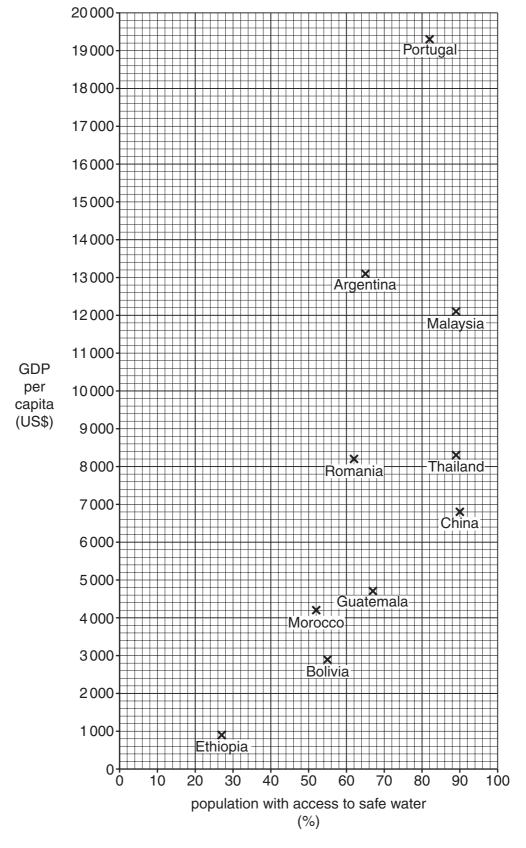


Fig. 10

(i)	Which country has a GDP per capita of US\$8200 and 62% of its population has access to safe water?
	[1
(ii)	What is the general relationship shown by Fig. 10 between GDP per capita and the percentage of population with access to safe water? Use examples and figures to illustrate your answer.
	[2
(iii)	Suggest <b>three</b> reasons why there is better access to reliable supplies of safe water in some countries than there is in others.
	1
	2
	3
	[3
(iv)	Explain how providing reliable supplies of clean water in countries at lower levels of development improves the quality of life of the people.
	$\Delta 1$

**(b)** Study Fig. 11, which is an article from a website about drought in Portugal. Portugal is a country at a high level of development in Europe.

# Drought threatens water supply for 10 percent of Portuguese

Portugal is suffering its worst drought in decades. The country received an average of 542 millimetres of precipitation in 2004, compared with an average annual precipitation of 930 millimetres between 1961 and 1990.

The dry weather, which has harmed crops and caused livestock to starve, continued into 2005, with the country experiencing precipitation levels which were less than 20% of normal levels in January.

The regions most at risk are those in the centre and south of the country, which rely mostly on wells instead of dams for their water.

In January the Environment Minister threatened to ration water in the southern province of Algarve, if the region did not receive enough rain by the end of the year.

Tourism industry officials had condemned talk of water rationing, arguing it could frighten visitors away from the Algarve, the nation's main tourist centre.

Environmentalists estimate Portugal wastes some three billion litres of water each year.

#### Fig. 11

(i)	Use evidence from Fig. 11 to suggest <b>three</b> reasons why people are short of water in some regions of Portugal.					
	1					
	2					
	3					
						[3]

Describe methods which could be used to reduce water shortages.
15.

(c)	Name an	area v	which	you	have	studie	d where	the to	urist in	dustry	is im	porta	ant.			
					_				_		_		_	_	_	 

Explain why the tourist industry has grown up in the area. You should refer in detail to the area's physical and human attractions.

	[/]

[Total: 25 marks]

Copyright Acknowledgements

Question 2 Photograph A
Question 2 Photograph B
Question 2 Photograph C
Question 2 Photograph D
Question 2 Photograph D
Question 2 Photograph D
Question 5 Figure 11

Question 6 Figure 11 © www.terradaily.com 7 September 2006

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