

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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CANDIDATE NAME											
CENTRE NUMBER						CANI NUM	DIDATE BER	= [

GEOGRAPHY 0460/12

Paper 1 May/June 2012
1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: 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, B and C for Question 1, Photographs D and E for Question 2, and Photographs F and G for Question 3.

The Insert is **not** required by the Examiner.

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.

For Examiner's Use				
Q1				
Q2				
Q3				
Q4				
Q5				
Q6				
Total				

This document consists of 28 printed pages and 1 Insert.



(a) Study Fig. 1, which shows information about the population density in India (an LEDC)

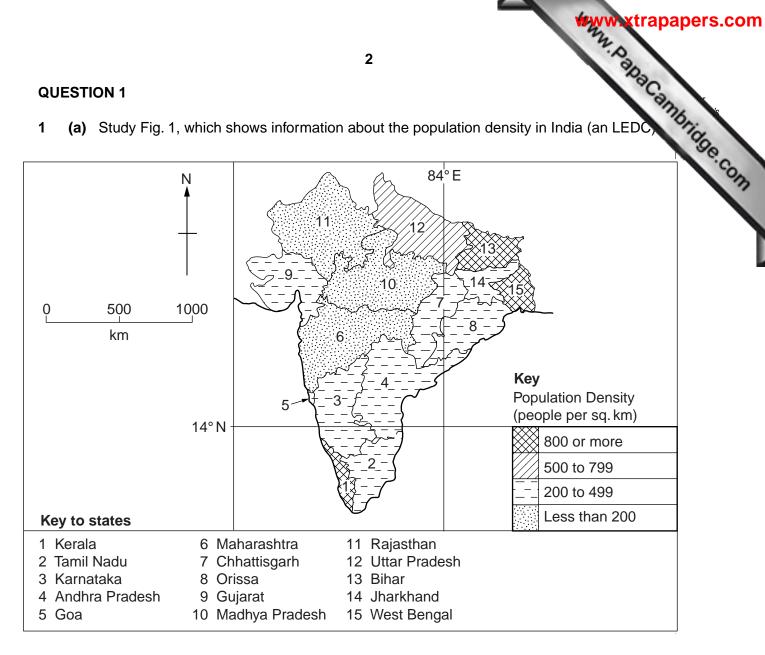


Fig. 1

(i)	Identify a state in India with a population density of 800 people or more per square kilometre.
	[1]
(ii)	The Indian state of Karnataka has a population of 52.73 million (52730000) and an area of 191976 square kilometres. Calculate its population density. Show your calculations.

	www.xtra
	3
(iii)	List the three states in India which have the lowest population density. Describe one similarity in the location of all three of these states. 1
	1
	2
	3
	Similarity in location
	[3
(iv)	Many parts of India are densely populated. Give reasons why both agricultura areas and industrial areas may be densely populated in an LEDC.
	[4
b) Stu	ldy Photographs A, B and C (Insert), which show areas with a low population density
(i)	Give one reason why each of the areas shown are sparsely populated. You should choose a different reason for each photograph.
	Photograph A
	Photograph B
	Dhotograph C
	Photograph C
	[3

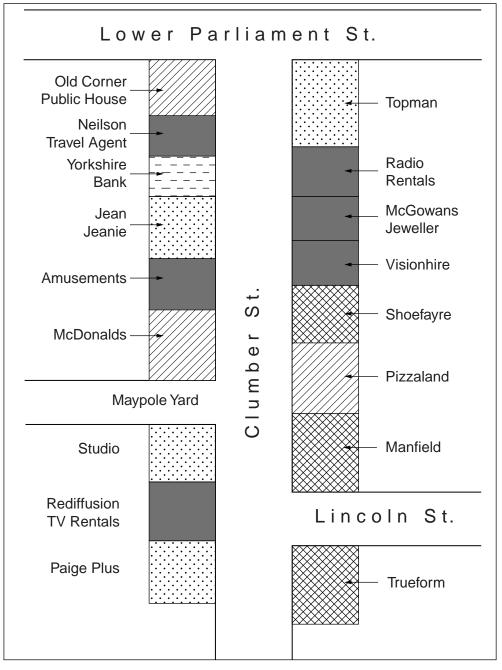
(ii)	Explain why some towns may grow up in areas which otherwise have population density.	Abh
		The COM
	[5]	

(c)	For a named country which you have studied, explain why the birth rate is high.	
	Name of country	bridge.com
		Se. COM
		1
	[7]	

[Total: 25 marks]

2 (a) Study Figs 2A and 2B, plans which show part of the Central Business District (CBD) Nottingham, a city in the UK in 1980 and 2010. Also study Photograph D (Insert).

Nottingham CBD (1980)



Key
food and drink
clothing
shoes
 banks
others

Nottingham CBD (2010)

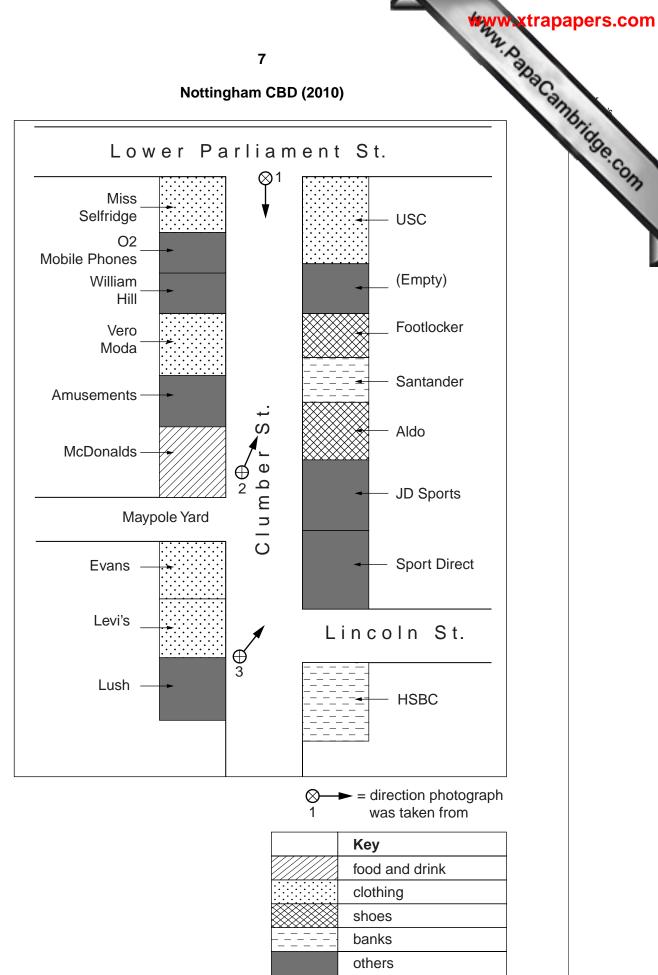


Fig. 2B

								20.	
(i)			on on Fig. 2l rrect answe		graph D take	n from?		DaCambridge	(
			1		2	3		[1]	1
(ii)	Giv	e an exan	nple from Fi	g. 2B of:					OM
	A	a bank;							
	В		f shop or se 1980 but ha			0		[2]	
(iii)		re three pi BD.	eces of evid	dence from	Photograph	n D or Fig. 2B	that the area is	s part of	
	1 .								
	2 .								
	3 .								
								[3]	
(iv)	Exp	olain why t	the CBD of	a city has a	a large sphe	re of influenc	e.		
		•••••		•••••					
								[4]	

(b) Study Fig. 3, a map of the main transport links in Nottingham, along with Photos (Insert) which shows part of the tram line.

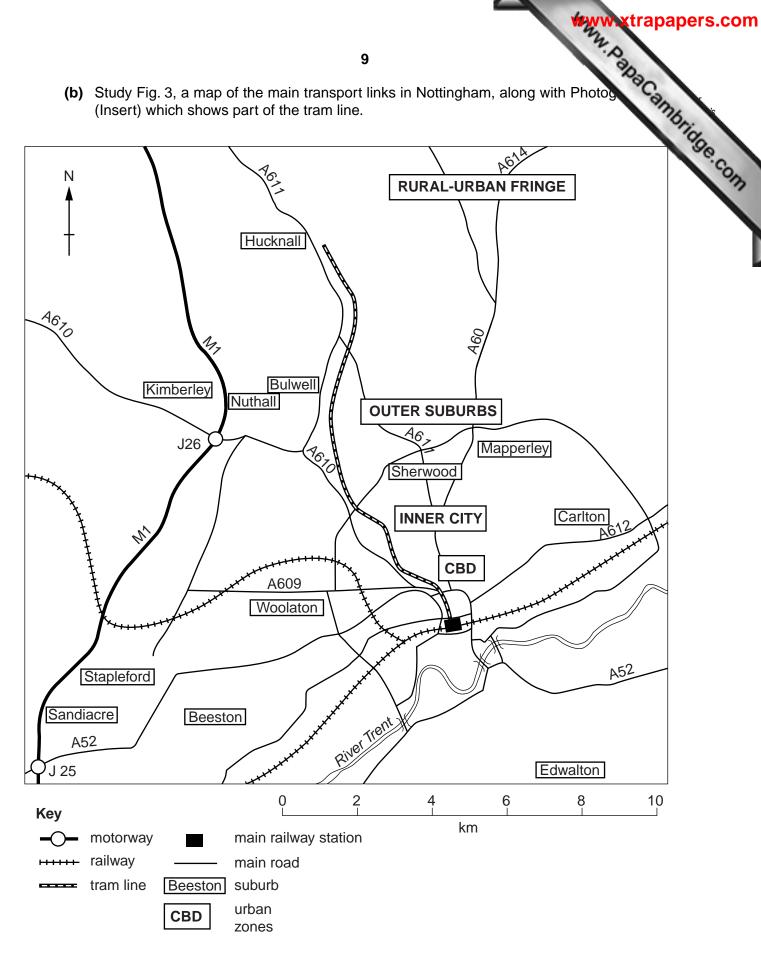


Fig. 3

(i)	Describe three features of the route of the tram line shown on Fig. 3.	
	1	Bride
		Mbridge Com
	2	
		1
	3	-
	[3]	
(ii)	Suggest benefits and problems of public transport systems, such as trams, for people who live in cities.	
	[5]	

	www.xtrap	apers.com
	To a named example of a town or city which you have studied, explain how sprawl has changed the surrounding areas. Name of town or city	
(c)	For a named example of a town or city which you have studied, explain how sprawl has changed the surrounding areas.	B.
	Name of town or city	Tale
		OM
	[7]	

[Total: 25 marks]

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		12 App	
ESTI	ION (Oly Control
(a)	Stu	dy Photograph F (Insert), which shows a river valley.	Tag
	(i)	Describe the shape of the valley shown in Photograph F.	C. COM
		[1]
	(ii)	Describe two features of the river shown in Photograph F.	
		1	
		2	
			2]
	(iii)	Suggest three ways in which the river shown in Photograph F could be carrying or erosion.	ut
		1	
		2	
		3	
		[3]
	(iv)	Name and describe two methods by which rivers transport their load.	
		Method 1	
		Description	
		Method 2	
		Description	
		[.	4]

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		13 M. D. J.	
(b)	Stud	ty Photograph G (Insert), which shows rocks where biological weathering is ce. Describe how biological weathering has occurred in the area shown.	
	(i)	Describe how biological weathering has occurred in the area shown.	Tidge C
		[3]	
	(ii)	Explain why biological and chemical weathering are rapid in areas which are hot and wet.	
		[5]	

(c)	Describe and explain the process of freeze-thaw weathering. Include fully labelled diagrams.
Į	[7]

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[Total: 25 marks]

(a) Study Fig. 4, which shows an area of tropical rainforest.

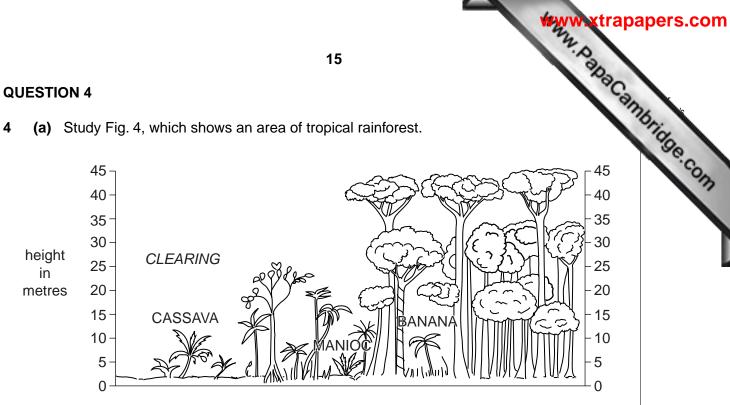


Fig. 4

To what height do the tallest trees grow? metres [1	1]
Identify two pieces of evidence of human activity in the area of tropical rainfores shown in Fig. 4.	st
1	
2[2	2]
Describe three characteristics of tropical rainforest vegetation.	
1	
2	
3	
	Identify two pieces of evidence of human activity in the area of tropical rainfores shown in Fig. 4. 1

.....[3]

(iv)	Explain how the vegetation has adapted to the tropical rainforest climate.	
		Abridge: Con
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		77
		l l
Stud	[4] ly Fig. 5, a flow diagram showing processes which take place in a tropical rainforest.	

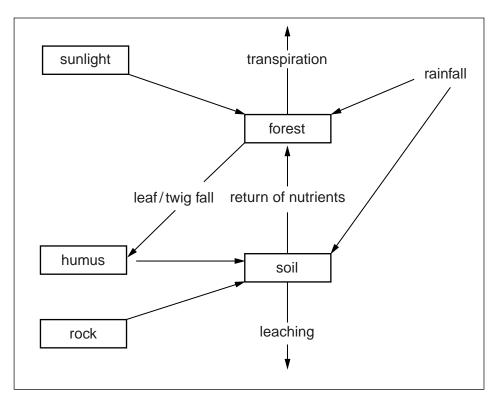


Fig. 5

(i)	Explain how nutrients are cycled in a tropical rainforest ecosystem.

(ii)	Describe the impacts of large scale deforestation of tropical rainforests on the natural environment.
	[5]
For whi	a named area of tropical rainforest which you have studied, describe the ways in ich it benefits people.
	ea of tropical rainforest
	[7]

(a) Study Fig. 6, which shows information about employment in manufacturing industry 5 selected countries in Europe and Asia in 1991 and 2010.

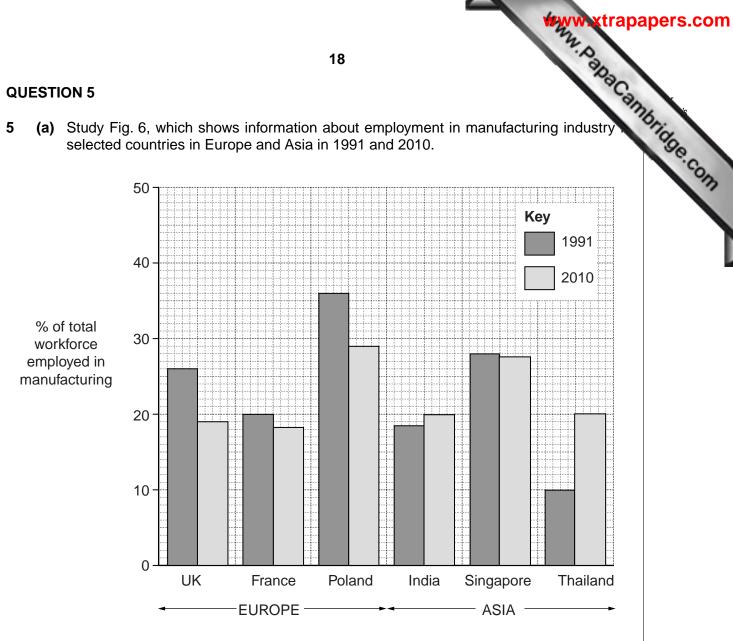


Fig. 6

- What was the percentage of the total workforce employed in manufacturing industry in the UK in 1991? [1]
- (ii) Using Fig. 6, identify:
 - Α the country with the highest percentage of the workforce employed in manufacturing industry in 1991;
 - the country where the percentage of the workforce employed in manufacturing industry changed by the smallest amount between 1991 and 2010.

-)
 _	-

(iii)	Compare the changes which have taken place in employment in manufa industry between 1991 and 2010 in Europe and Asia. Suggest reasons for the changes.	Mid
		Se.COM

(b) Study Figs 7A, 7B and 7C, which show information about Nigeria.

Industrial zones in Nigeria

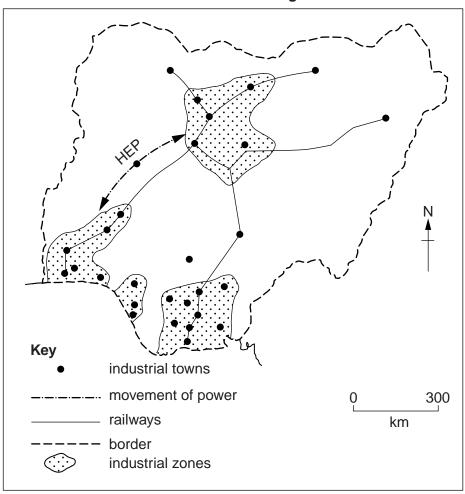
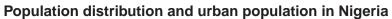


Fig. 7A



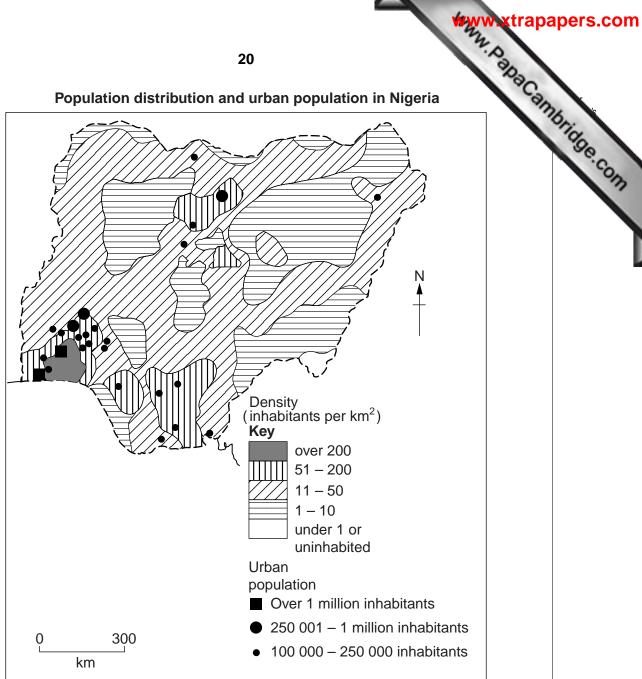


Fig. 7B

Road network in Nigeria

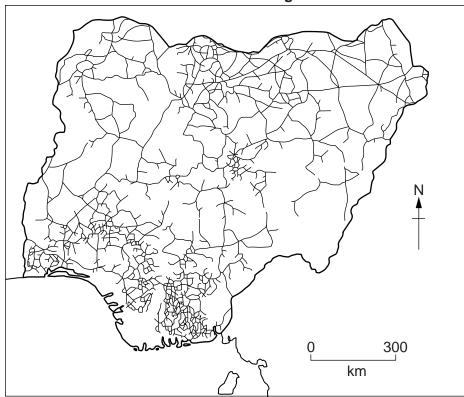


Fig. 7C

Use Fig. 7A to describe the distribution of industrial zones in Nigeria.
[3]

ii)	Using Figs 7B and 7C only , suggest reasons for the distribution of the incomes in Nigeria which are shown in Fig. 7A.
	Table
	[4]
)	Describe the advantages and disadvantages for people of living in industrial zones.
	[5]
	[5]

www.xtrapa	apers.com
23	
23 For a named area where manufacturing industry is important, describe its important the natural environment. Name of area	B. A.
Name of area	Tage
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	L
[7] [Total: 25 marks]	

(a) Study Fig. 8, which shows information about rivers in Guinea, an LEDC in West Africa 6 Much of the water used in Guinea is obtained from the rivers shown on Fig. 8.

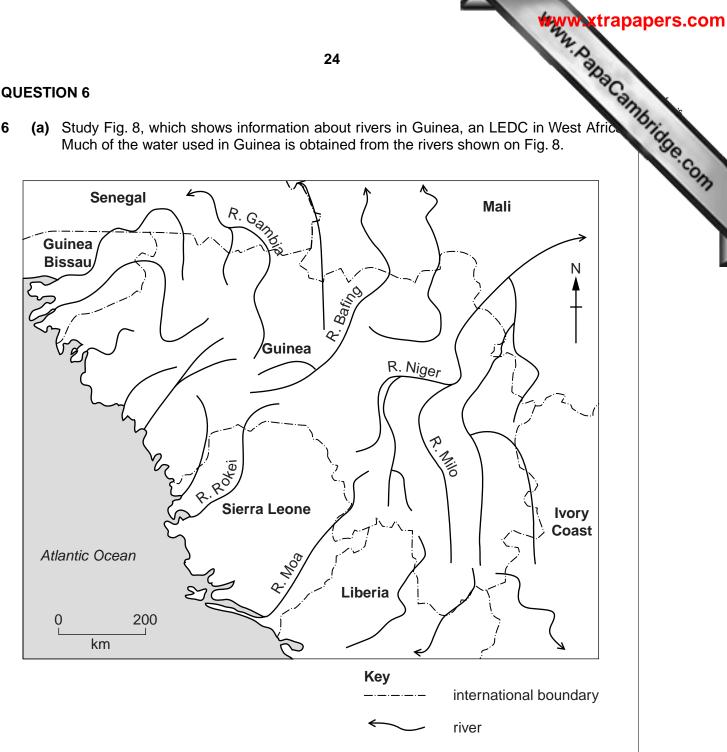


Fig. 8

	Leone.	
		[1]
(ii)	Suggest two reasons why conflicts may occur when a river flows through n than one country.	nore
	1	
	2	

Name a river which has its source in Guinea but flows to the sea through Sierra

(iii)	Explain how improving the water supply in LEDCs, such as Guinea, is improve the quality of life.	Mide
		Se.COM
	[3]	

(b) Study Figs 9A and 9B, which show information about the River Ebro in Spain (an MEDC in Europe).

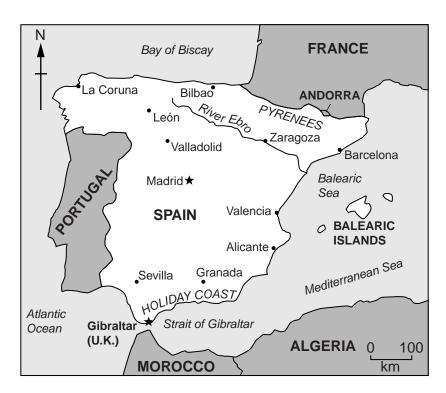


Fig. 9A

EBRO RIVER PROJECT TO SOLVE SOUTHERN SPAIN'S WATER PROBLEMS

In the late 1990s plans were drawn up to transfer large amounts of water each year from the Ebro River basin in Spain's rainy north to its dry south. The Ebro Transfer, a network of dams and pipes, would send water to Granada and the southern holiday coast.

	26	2.0
xplain why the Ebro Ri	ver Project was planned.	WWW.xtrapapers
		18hig
		[3]
escribe other methods eed it.	which can be used to supply me	ore water to areas which
		[4]
xplain how water can b	e used in a sustainable way.	

www.xtrapa	pers.com
27 A. D.	
For a named country or area which you have studied, describe one way in which is produced. Name of area or country	St.
Name of area or country	Tage
	On
[7]	
[Total: 25 marks]	

Additional Page

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28 Additional Page If you used the following lines to complete the answer(s) to any question(s), the question(s) must be clearly shown.
Copyright Acknowledgements:

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