



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2012

Centre Number

71	
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Candidate Number

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Geography

Assessment Unit AS 2

assessing

Human Geography

[AG121]



TUESDAY 19 JUNE, MORNING

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Section A: candidates must answer this section.

Section B: answer **all three** questions in this section.

Section C: answer **any two** questions from this section.

You should write your answers in the spaces provided in this question paper.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	

INFORMATION FOR CANDIDATES

The total mark for this paper is 90.

Quality of written communication will be assessed in **all** questions.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Total Marks	
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Section A**Examiner Only****Marks****Remark**

Answer this section.

1 (a) Study **Resource 1A** showing the results of an investigation which measured river depth at 12 equal intervals across a meander on the channel of the River Glenelly (Co. Tyrone).

Resource 1A

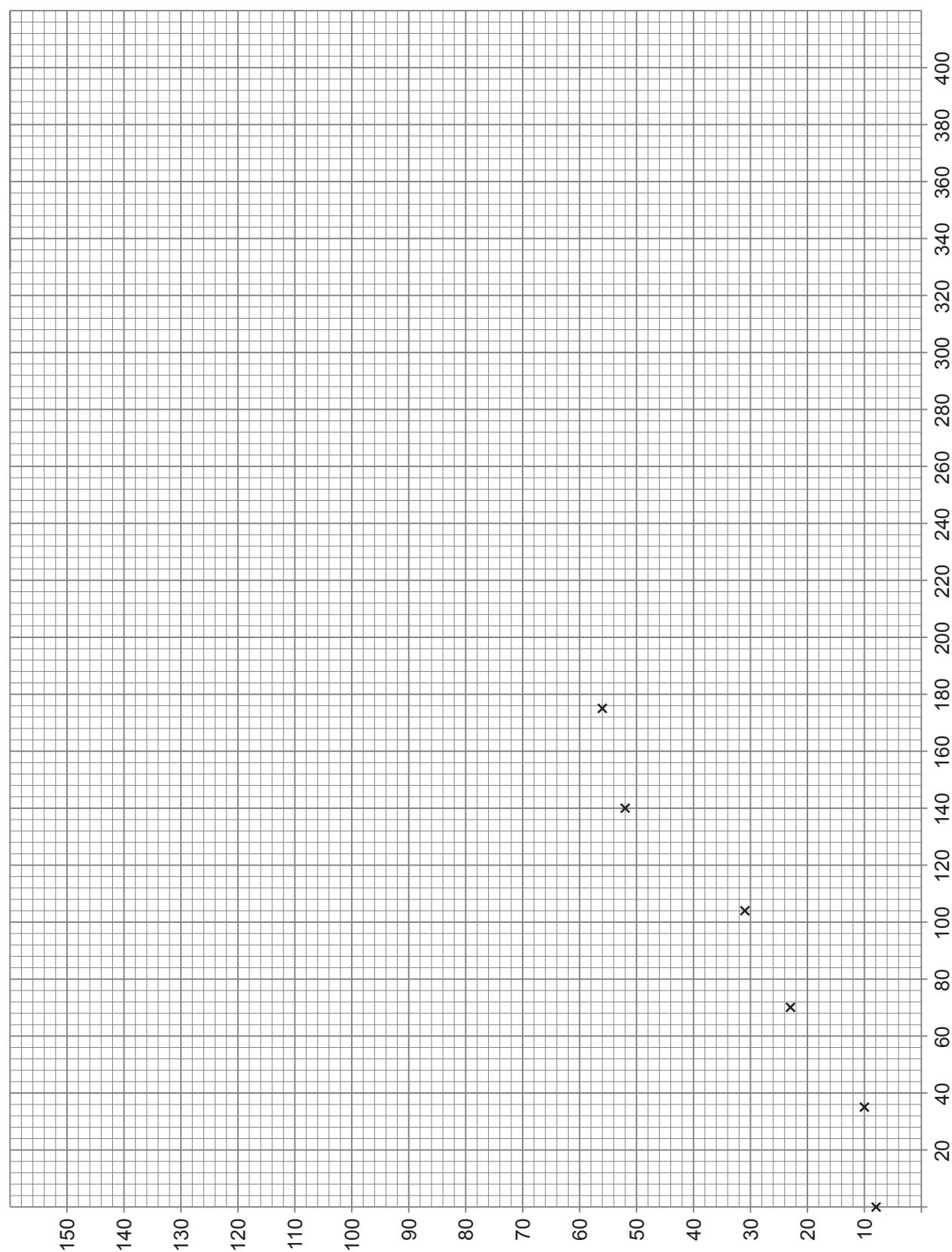
Site	Distance from the inside bank of the meander bend (cm)	River depth (cm)
1	0	8
2	35	10
3	70	23
4	105	31
5	140	52
6	175	56
7	210	103
8	245	92
9	280	126
10	315	149
11	350	148
12	385	143

(i) Using the data above, complete the graph in **Resource 1B** and label it fully.

[7]

Resource 1B

Title of graph: _____



(ii) Describe the pattern on your completed graph.

[3]

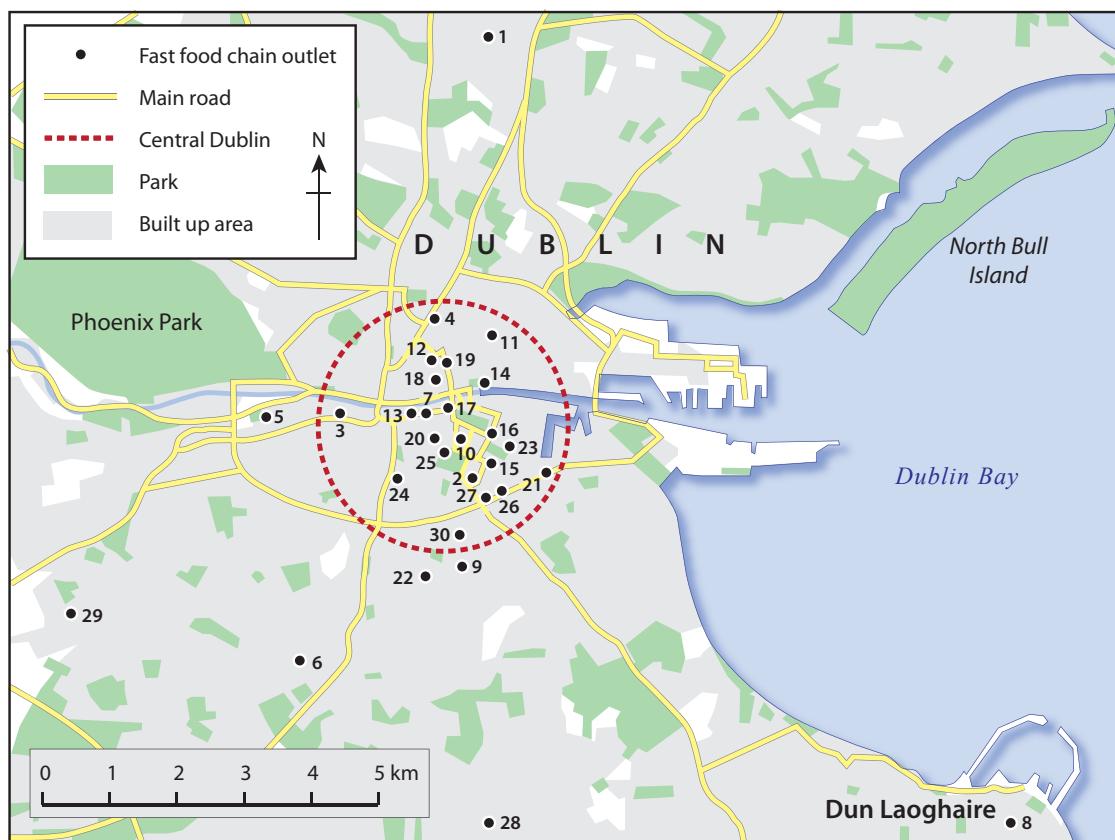
(iii) Suggest **one** geographical reason to explain this pattern.

[3]

Examiner Only	
Marks	Remark

(b) A geographer studying service distribution in Greater Dublin, Ireland mapped the distribution of a chain of fast food restaurants within this area as illustrated in **Resource 1C** below.

Resource 1C



Source: Principal Examiner

(i) Using **Resource 1C** on page 5, complete **Resource 1D** by filling in the three missing values. [3]

Examiner Only	
Marks	Remark

Resource 1D

Restaurant Number	Nearest Neighbour	Distance (km)
1		4.02
2	15	0.40
3	5	1.13
4	12	0.56
5	3	1.13
6	22	2.09
7	13	1.61
8		7.57
9	30	0.48
10	20	0.32
11	14	0.72
12	19	0.16
13	7	0.16
14	17	0.64
15	2	0.40
16	23	0.32
17	7	0.32
18	19	0.40
19	12	0.16
20	25	0.24
21	23	0.72
22	9	0.56
23	16	0.32
24	25	0.72
25	20	0.40
26	27	0.16
27	26	0.16
28	6	3.62
29		3.31
30	9	0.48

Sum: 33.28

Area: 194.21 km²

(ii) In the space below, complete the Nearest Neighbour Analysis (R_n calculation) and state the type of distribution shown in **Resource 1C**. The Nearest Neighbour Index Equation and significance graphs are presented in **Resource 1E** (on page 8).

Examiner Only	
Marks	Remark

Show all calculations clearly.

Area = 194.21km²

Calculated R_n value _____

Type of distribution _____

[6]

(iii) Discuss how the R_n value and type of distribution may have been affected if this study had only covered the Central Dublin area rather than the Greater Dublin area.

[3]

Resource 1E

Nearest Neighbour Index Equation

Formula:

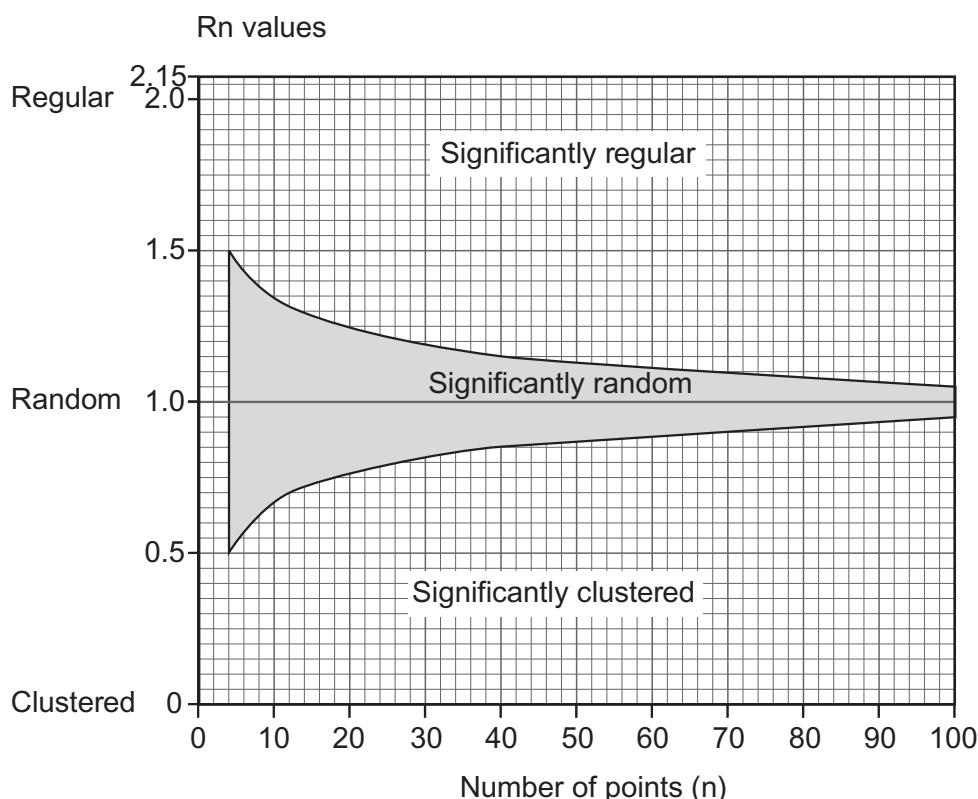
$$R_n = 2\bar{d} \sqrt{\frac{n}{A}}$$

where \bar{d} = the mean distance between nearest neighbours

n = number of points

A = area in question

Nearest Neighbour Index Significance Graph



(c) Researchers studying life expectancy in the United Kingdom investigated whether location and gender have an impact on the results. Study **Resource 1F** below showing the results from their sample of 1000 people.

Examiner Only	
Marks	Remark

Resource 1F

	Mean life expectancy for males (years)	Mean life expectancy for females (years)
England	78.3	82.3
Wales	77.2	81.6
Scotland	75.4	80.1
Northern Ireland	76.8	81.4

Source: Principal Examiner

(i) Identify which sampling method would be most appropriate for the researchers to have used in this study and justify your choice.

[3]

(ii) Suggest an explanation for **one** difference shown in **Resource 1F** (either between genders or regions).

[2]

Section B

Answer **all three** questions in this section.

2 (a) Study **Resource 2A** showing the population distribution of Egypt and **Resource 2B** showing the main physical features of Egypt and answer the questions that follow.

Resource 2A



© "Map courtesy of www.theodora.com/maps , used with permission"

Resource 2B



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(i) Describe the population distribution of Egypt using **Resource 2A**.

[2]

(ii) Using **Resource 2B**, discuss how **two physical** factors may have affected the population distribution of Egypt.

[6]

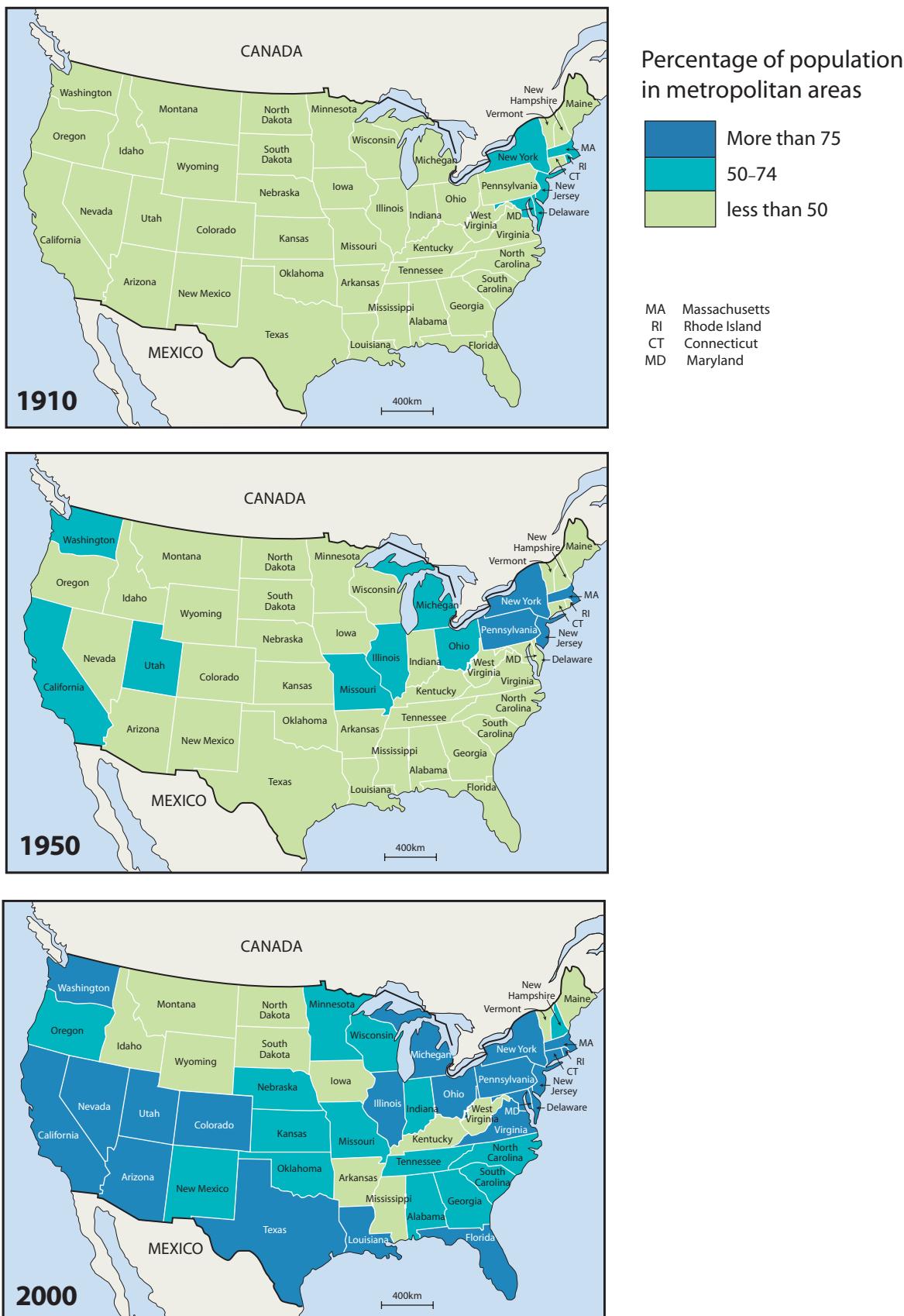
(b) Describe **two** problems associated with population data collection in LEDCs.

[4]

Examiner Only	
Marks	Remark

3 (a) Study **Resource 3** which shows the percentage of the population living in metropolitan areas by state in the United States of America (USA) in 1910, 1950 and 2000 and answer the questions which follow.

Resource 3



A metropolitan area is a region consisting of a populous urban core and its surrounding territory.

Source: U.S. Census Bureau, decennial census of population

(i) Describe the trend from 1910–2000 in the USA shown in **Resource 3**.

[2]

(ii) Name the urban process shown in **Resource 3**.

[1]

(iii) Describe **one** possible effect of this process on the rural-urban fringe of metropolitan areas.

[3]

Examiner Only	
Marks	Remark

(b) The following issues affect the inner city in MEDCs:

- social deprivation
- economic deprivation
- re-urbanisation
- gentrification.

Choose **one** of these issues and describe how it has affected your inner city MEDC case study.

[6]

Examiner Only	
Marks	Remark

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(Questions continue overleaf)

4 (a) Study **Resource 4** showing the annual percentage increase in GDP in Sub-Saharan Africa from 2003 to 2011.

Resource 4

(i) Using the resource, describe the changes in GDP in Sub-Saharan Africa and explain how these could affect the rate of development in the region.

[5]

Examiner Only	
Marks	Remark

(ii) GDP is an economic measure of development. Describe and evaluate **one social** measure of development.

[4]

(b) Identify and describe **one** effect of colonialism.

[3]

Examiner Only	
Marks	Remark

Section C

Answer **any two** questions in this section.

Examiner Only	
Marks	Remark

5 Discuss the economic, social and political implications of differing dependency ratios in MEDCs and LEDCs. [12]

6 Either

(a) With reference to your case study, discuss how economic regeneration is delivered to remote rural areas by regional development agencies.

Or

(b) With reference to a protected area you have studied, discuss the attempts to manage it for conservation, recreation and tourism. [12]

7 Define globalisation and trade and discuss how they have created negative and/or positive effects for the development of LEDCs. [12]

Question
Number

Number your answers clearly

Question Number

Number your answers clearly

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THIS IS THE END OF THE QUESTION PAPER

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