

ADVANCED SUBSIDIARY (AS) General Certificate of Education January 2012

SHILIDENH BOUNTY COM

Geography

Assessment Unit AS 2 assessing **Human Geography** [AG121]



MONDAY 30 JANUARY, AFTERNOON

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.

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.



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

|--|



Section A

Answer this section.

SHILDENT BOUNTS, COM (a) Study Resource 1A which relates to the initial stages of a Spearman's Rank statistical 1 test used to investigate the relationship between Gross Domestic Product (GDP) per capita and life expectancy in 2009 for a sample of 14 countries.

Resource 1A

Country	X GDP per Capita (\$)	Rank X	Y Life expectancy (years)	Rank Y	d	d ²
Albania	3750	7	77	5	2	4
Australia	42279	3	81	2	1	1
Bangladesh	551	12	66	9	3	9
Belgium	43430	2	80	3	-1	1
Brazil	8114	5	72	7	-2	
Chad	596	11	49	13	-2	4
Denmark	55992	1	79	4	-3	9
Egypt	2269	8	70	8	0	0
Haiti	667	10	61	10	0	0
Italy	35 084	4	82	1	3	
Kenya	759	9	54	11	-2	4
Mozambique	428	13	48	14	-1	1
Niger	352	14	51	12	2	4
Romania	7500	6	73	6	0	0

Source: World Bank data

[2]

 $\Sigma d^2 = 50$

(i) Complete **Resource 1A** by filling in the missing values.

Examiner Only Marks Remark

	r _s =
Comment on the statistical significance:	
	[6]
(iii) Outline one geographical explan	nation of this statistical result.

Resource 1B

Student Bount 4. com Spearman's Rank Correlation Equation and Significance Charts

Formula:

$$r_{\rm s} = 1 - \left(\frac{6\Sigma d^2}{n^3 - n}\right)$$

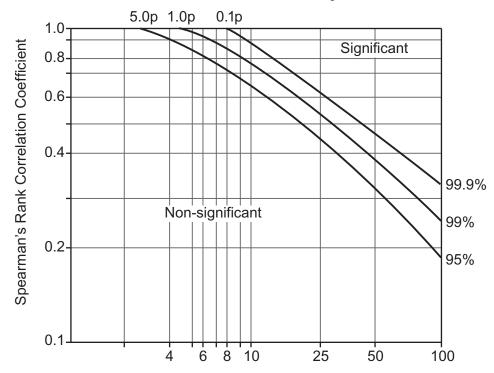
where d = the difference in rank of the values of each matched pair

n = the number of ranked pairs

 Σ = the sum of

Spearman's Rank Correlation Significance Graph and Table

Critical values for r_s

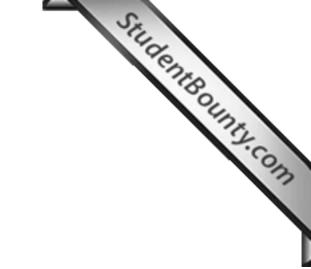


Degrees of freedom [Number of ranked pairs (n) - 2]

Critical values of Spearman's Rank Correlation Coefficient, r_s

Significance level

degrees of freedom	0.05 (5%)	0.01 (1%)
4	0.88	1.00
5	0.83	0.96
6	0.80	0.91
7	0.77	0.87
8	0.72	0.84
9	0.68	0.80
10	0.64	0.77
11	0.60	0.74
12	0.57	0.71
15	0.50	0.65



BLANK PAGE

(Questions continue overleaf)

Resource 1C

Region	Population density (people per square km)
Ecuador	47
Colombia	37
Venezuela	27
Brazil	21
Peru	21
Chile	21
Uruguay	19
Paraguay	15
Argentina	14
Bolivia	8
Guyana	3
Suriname	2
French Guiana	2
Falkland Islands	0.24

(i) Select an appropriate mapping technique to show how population density varies throughout South America.

Chosen technique	[1	[]	
	-	-	J

(ii) Complete the map and key on **Resource 1D** using your chosen technique.

Student Bount 4. Com

Resource 1D

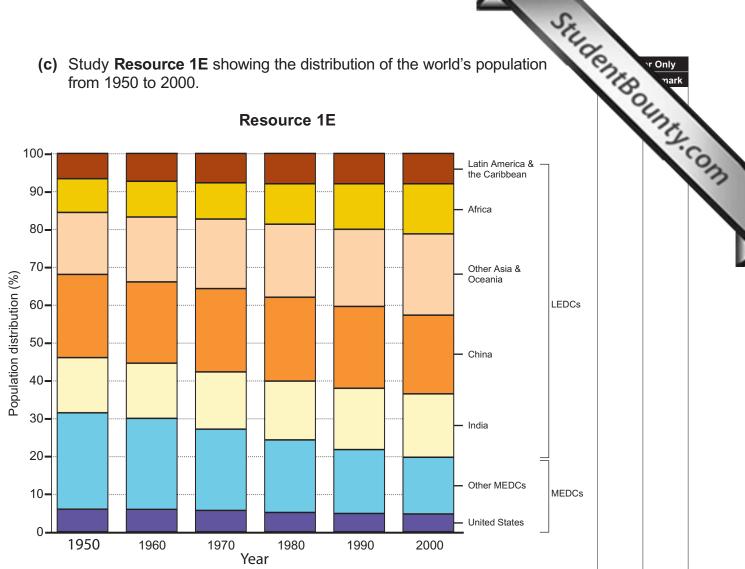


Source: G Alexander / CCEA

(iii) Describe one limitation of your chosen technique for mapping this data.

[2]





Source: redrawn from U.S. Census Bureau

(i) Identify the percentage of the world's population living in Africa in 1950.

[1]

(ii) Identify the percentage of the world's population living in Africa in 2000.

[1]

Student Bounty.com (d) Study Resource 1F below which shows a European river landscape.

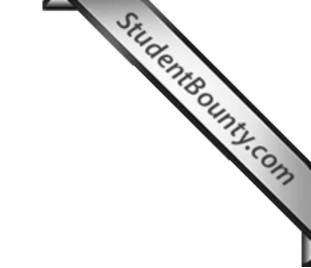
Resource 1F

Complete the table below using appropriate letters from the photograph.

Feature	Letter
agricultural buildings	A
early seral stage (pioneer plant community)	
slip-off slope	
floodplain	

[3]

	0.1
	er Only Remark

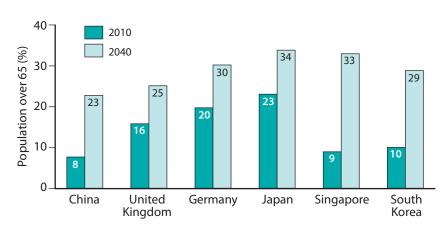


BLANK PAGE

(Questions continue overleaf)

Struckent Bounty.com 2 (a) Study Resource 2 which shows the percentage of the population above the age of 65 in selected countries in 2010 and 2040 (projected).





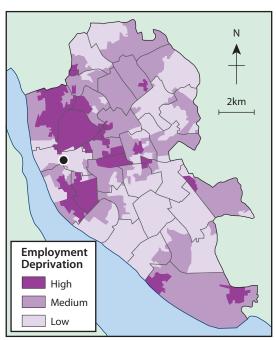
Source: US Census Bureau

(i) Using examples from **Resource 2**, compare the rates of change in the percentage of the population aged over 65.

[3]

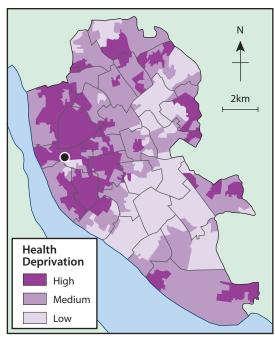
Student Bounty Com 3 (a) Study Resource 3A showing levels of employment deprivation, Resource 3B showing levels of health deprivation and Resource 3C which is a map of the wards within Liverpool.

Resource 3A



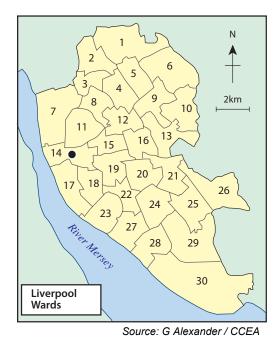
Source: G Alexander / CCEA

Resource 3B



Source: G Alexander / CCEA

Resource 3C



LIVERPOOL WARDS

- 16 Old Swan 1 Fazakerley 2 Warbreck 17 Riverside 3 County 18 Princes Park 4 Clubmoor 19 Picton 5 Norris Green 20 Wavertree 6 Croxteth 21 Childwall 7 Kirkdale 22 Greenbank
- 8 Anfield 23 St Michaels
 9 West Derby 24 Church
 10 Everton 25 Woolton
 11 Yew Tree 26 Belle Vale
 12 Tuebrook & Stoneycroft 27 Mossley Hill
- 13 Knotty Ash 28 Cressington
 14 Central 29 Allerton & Hunts Cross

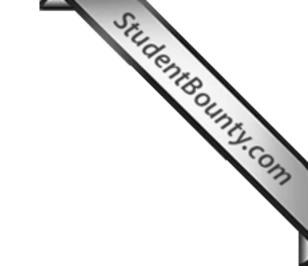
30 Speke Garston

Liverpool city centre

15 Kensington & Fairfield

[Turn over

Student Bounty Com

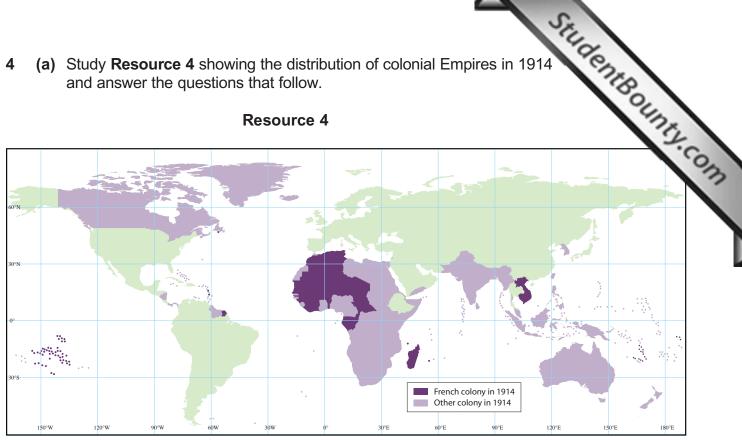


BLANK PAGE

(Questions continue overleaf)

(a) Study Resource 4 showing the distribution of colonial Empires in 1914 and answer the questions that follow.

Resource 4



Source: G Alexander / CCEA

(i)	Describe the distribution of French colonies in 1914.	Marks	Remark
	[2]		
(ii)	Discuss one negative effect of colonialism for the colonies, and one positive effect of colonialism for the ruling countries.		

Section C

Answer any two questions in this section.

With reference to a national case study, describe and explain how 5 population structure, as shown by pyramids, can change over time.

With reference to place for illustration, discuss three issues faced in the rural-urban fringe.

[12]

Debt is an issue affecting many LEDCs. Outline some of the causes, problems and possible solutions to such debt.

[12]

Student Bounty.com

THIS IS THE END OF THE QUESTION PAPER

SHILDERIH BOUNTS, COM

SHILDERIH BOUNTS, COM

SHIIdenHounty.com

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA will be happy to rectify any omissions of acknowledgement in future if notified.