

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2011

# 71 Candidate Num

#### Geography

Assessment Unit AS 2

assessing

Human Geography

[AG121]

FRIDAY 17 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.

You are provided with an insert sheet for use with question 3.

Do not write your answers on this insert.

#### **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				

Total	
Marks	

**1 (a)** Study **Resource 1A**, a table showing the birth and death rates in Japan between 1955 and 2008 and **Resource 1B** on page 3, a partially completed line graph to illustrate this data.

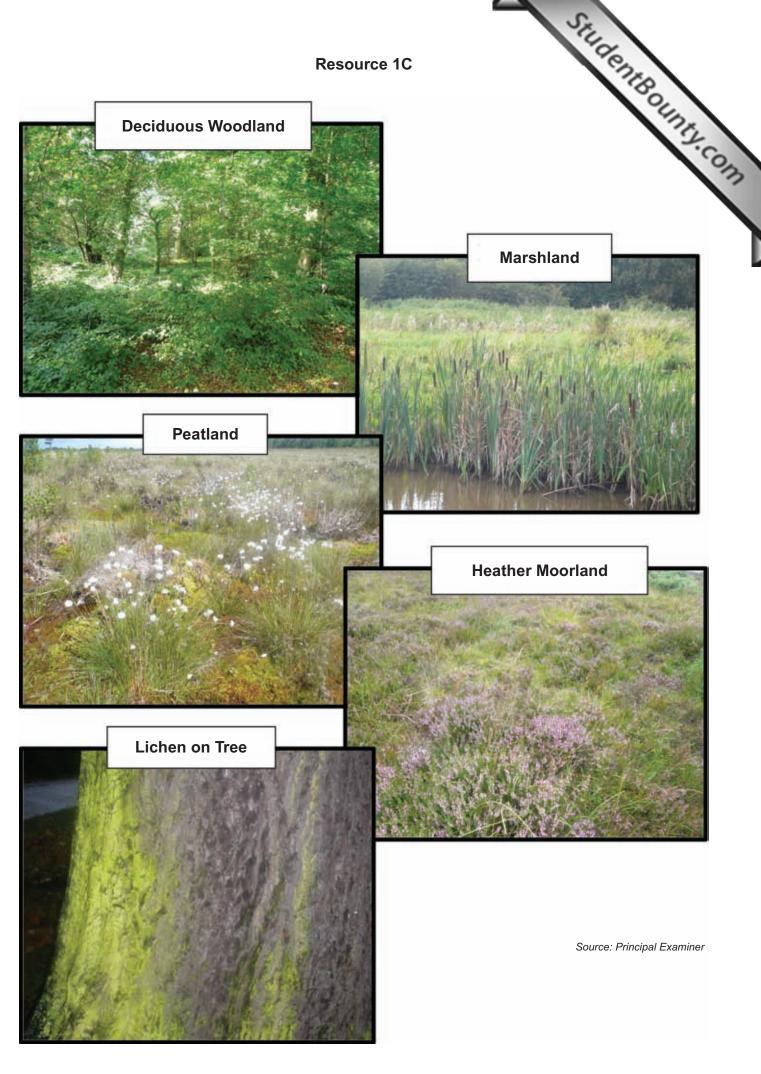
#### Resource 1A

Year	Live Births per 1000	Deaths per 1000
1955	19.4	7.8
1960	17.2	7.6
1965	18.8	7.1
1970	18.8	6.9
1975	17.1	6.3
1980	13.6	6.2
1985	11.9	6.3
1990	10.0	6.7
1995	9.6	7.4
2000	9.5	7.7
2005	8.4	8.6
2006	8.7	8.6
2007	8.6	8.8
2008	8.7	9.1

© Statistical Handbook of Japan 2011 by Statistics Bureau, Japan

- (i) Complete the line graphs using the data provided in **Resource 1A**.
- [6]
- (ii) Shade the graph, **Resource 1B**, to indicate periods of Natural Increase and Natural Decrease and complete the key.

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		Stud		
(111)	Explain <b>one</b> reason why pragmatic sampling may be considered less than ideal when collecting data.	ed	THEOUT R	
			T.C	OM
		<u> </u>		

(c) Resource 1D relates to the initial stages of a Spearman's Rank statistical test used to investigate the relationship between the Human Development Index (HDI) and the percentage of the population living in urban areas for a sample of 15 countries. (Note the HDI is a composite measure of development composed from data on life expectancy, education and per capita GDP. Each country's value ranges between 0 and 1 with higher values indicating higher levels of development.)

**Resource 1D** 

Country	X HDI	Rank X	Y % Urban	Rank Y	d	d <sup>2</sup>
Canada	0.966	1	81	3	-2	4
Japan	0.960	2	79	4	-2	4
Austria	0.955	3	67	5	-2	4
Belgium	0.953	4	97	1	3	9
U.K.	0.947	5	90	2	3	9
Belize	0.772	6	50	9.5	-3.5	12.25
Algeria	0.754	7	58	7		
Bolivia	0.729	8	63	6	2	4
Egypt	0.703	9	43	11	-2	4
Botswana	0.694	10	54	8	2	4
Malawi	0.493	11	17	15	-4	16
Senegal	0.464	12	41	12	0	0
Gambia	0.460	13	50	9.5	3.5	12.25
Mozambique	0.402	14	35	13		
Chad	0.392	15	21	14	1	1
© U.S. Central Intellig	ence Agency	<i>y</i>				$\sum d^2 = 84.5$

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

R.	=					
5						

Comment on the statistical significance

[5]

# Student Bounts, com **Spearman's Rank Correlation Equation and Significance Charts**

Formula:

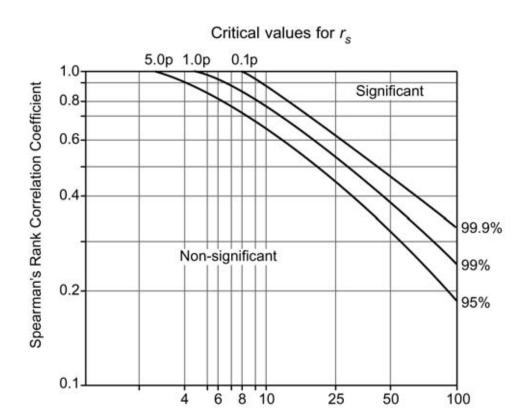
$$r_s = 1 - \left(\frac{6\Sigma d^2}{n^3 - n}\right)$$

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

n = the number of ranked pairs

 $\Sigma$  = the sum of

#### Spearman's Rank Correlation Significance Graph and Table



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

#### Significance level

degrees of freedom	0.05 (5%)	0.01 (1%)
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
13	0.54	0.69
15	0.50	0.65
20	0.47	0.59

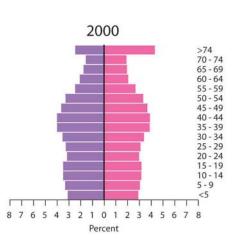
Section B	on Structed to on
Answer all three questions in this secti	on Bou
Describe the main sources of population data.	on

[4]

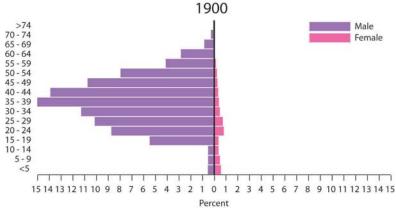
(b) Study Resource 2 which shows the population structure in the USA of the White population in 1900 and 2000 and the Asian and Pacific Islander population in 1900.

#### Resource 2

### WHITE POPULATION 1900 >74 70 - 74 65 - 69 60 - 64 55 - 59 50 - 54 45 - 49 40 - 44 35 - 39 30 - 34 25 - 29 20 - 24 15 - 19 10 - 14 Male Female 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



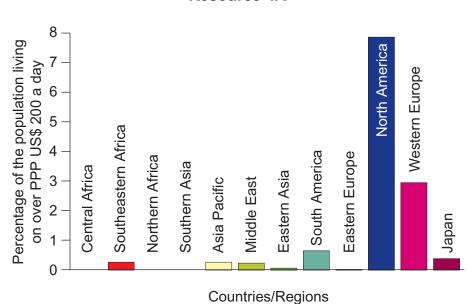
#### ASIAN AND PACIFIC ISLANDER POPULATION



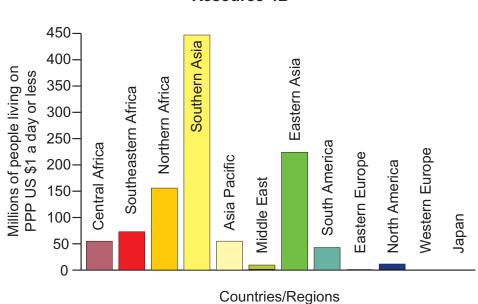
© US Census Bureau, Decennial Census of Population, 1900, 1950 and 2000

\_ [6]





#### Resource 4B



Source: www.worldmapper.org

#### Answer any two questions

- Stillden R. Mais. 5 With reference to a national case study, describe and explain how population structure, as shown by pyramids, can change over space. [12]
- Using your urban case study from a LEDC, discuss the issues created by the rapid urbanisation it has experienced.
- 7 With reference to your national case study, describe and explain regional contrasts in development. [12]

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**GCE Geography Advanced Subsidiary (AS) Assessment Unit AS2 Summer 2011** 

**Resource 3 for use with Question 3** 

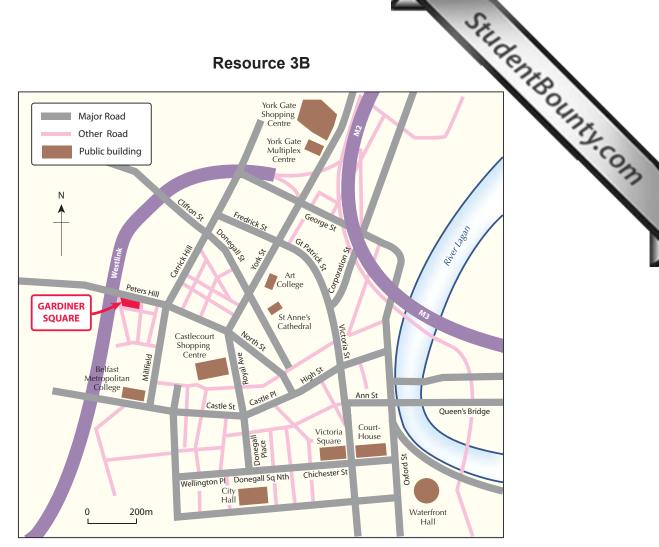
**Resource 3A** 





Source: Principal Examiner

#### Resource 3B



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#### **Resource 3C**

## **GARDINER SQUARE**

Belfast **City Central** 

Gardiner Square is a contemporary, yet modern development, combining clean, classic lines with a superb standard of specification. Each of its one and two bedroom turnkey homes offer an exclusive opportunity to enjoy city central apartment living.

Apt 42 2 bed £111,950 Apt 43 1 bed £114,950



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