

**ADVANCED SUBSIDIARY (AS) General Certificate of Education** 2013

# Geography

Assessment Unit AS 2 assessing **Human Geography** 

[AG121]

FRIDAY 14 JUNE, MORNING



SHIIdent BOUNTY.COM

# 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.

### INF

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| FORMATION FOR CANDIDATES   | 1 |  |
|--|---|--|
| total mark for this paper is 90.   | 2 |  |
| lity of written communication will be assessed in <b>all</b> questions.  Figures in brackets printed down the right-hand side of pages | 3 |  |
| indicate the marks awarded to each question or part question.  | 4 |  |
|  | 5 |  |
|  | 6 |  |
|  | 7 |  |
|  |   |  |

Total Marks

For Examiner's

use only

**Marks** 

Question

Number

Section A

Answer this section.

(a) Study Resource 1A which relates to an investigation into the relationship between GDP per capita and the percentage of rural population in 16 countries. 1

| Country      | GDP per<br>Capita<br>(US dollars)<br>(X) | Rank<br>X | % Rural<br>Population<br>(Y) | Rank<br>Y | Difference<br>in ranks<br>d | d²     |
|--------------|--|-----------|------------------------------|-----------|-----------------------------|--------|
| Algeria      | 4495                                     | 10        | 34                           | 8         | 2                           | 4      |
| Australia    | 42131                                    | 4         | 11                           | 15        | -11                         | 121    |
| Bangladesh   | 673                                      | 15        | 72                           | 4.5       | 10.5                        | 110.25 |
| Bhutan       | 2088                                     | 11        | 63                           | 6         |                             |        |
| Burkina Faso | 536                                      | 16        | 80                           | 1         | 15                          | 225    |
| Cambodia     | 802                                      | 12        | 77                           | 3         | 9                           | 81     |
| Canada       | 46 148                                   | 1         | 19                           | 14        |                             |        |
| Chad         | 676                                      | 14        | 72                           | 4.5       | 9.5                         | 90.25  |
| France       | 39460                                    | 6         | 22                           | 12.5      | -6.5                        | 42.25  |
| Germany      | 40 509                                   | 5         | 26                           | 11        | -6                          | 36     |
| Ireland      | 45497                                    | 2         | 38                           | 7         | -5                          | 25     |
| Italy        | 33917                                    | 8         | 32                           | 10        | -2                          | 4      |
| Japan        | 43 137                                   | 3         | 33                           | 9         | -6                          | 36     |
| Kenya        | 775                                      | 13        | 78                           | 2         | 11                          | 121    |
| Mexico       | 9166                                     | 9         | 22                           | 12.5      | -3.5                        | 12.25  |
| UK           | 36 100                                   | 7         | 10                           | 16        | -9                          | 81     |

 $\Sigma d^2 = 1183$ 

(i) Complete the table by filling in the four missing values.

Examiner Only Marks Remark

[2]

\_\_ [4]

### Resource 1B

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

Formula:

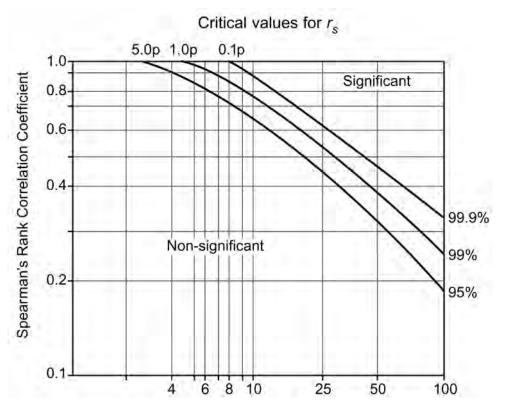
$$r_s = 1 - \left(\frac{6\Sigma d^2}{n^3 - n}\right)$$

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

n = the number of ranked pairs

 $\Sigma$  = the sum of

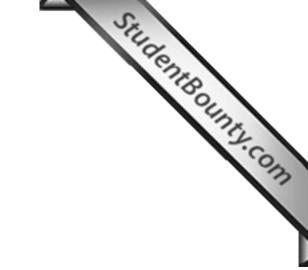
# **Spearman's Rank Correlation Significance Graph and Table**



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      |  |
| 14                 | 0.52      | 0.67      |  |
| 15                 | 0.50      | 0.65      |  |
| 20                 | 0.47      | 0.59      |  |



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(Questions continue overleaf)

### **Resource 1C**

Long axis of bedload particles (cm)

| 4.3 | 4.3 | 11.4 | 19 | 19.1 | 24.5 |
|-----|-----|------|----|------|------|

- (i) State the **mode** for the data above. \_\_\_\_\_ [1]
- (ii) Explain why this statistic has limitations for summarising the data set.

[2]

| (iii) | Calculate the mean for this data set and state one advantage of using this statistic to summarise the data. |
|-------|---|
|       |   |
|       |   |
|       |   |
|       |   |
|       |   |
|       |   |
|       | [3]   |

\_ [3]

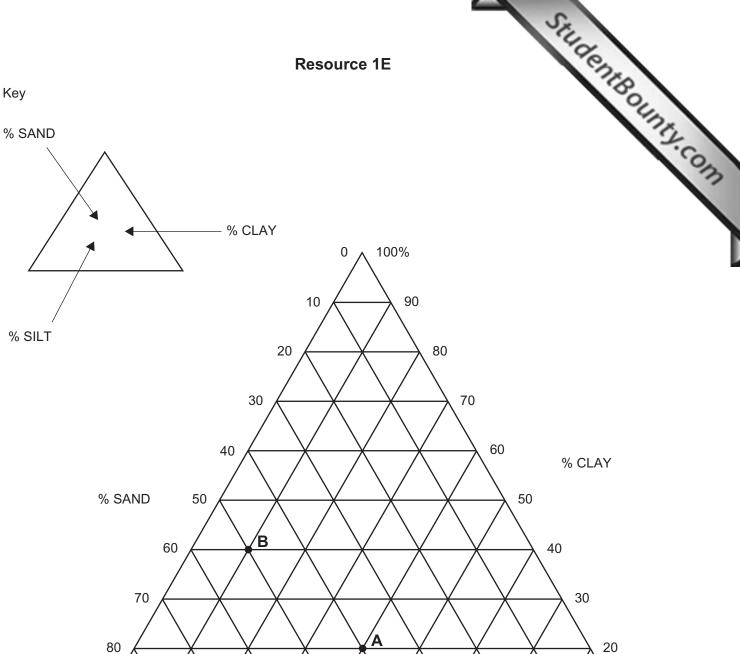
### Resource 1D

|        | A: LOAM | B: SANDY<br>CLAY | C: LOAMY<br>SAND | D: CLAY |
|--------|---------|------------------|------------------|---------|
| % SAND | 40      |                  |                  | 10      |
| % SILT | 40      |                  |                  | 10      |
| % CLAY | 20      |                  |                  | 80      |

- (i) Using the triangular graph, complete the table, **Resource 1D**, showing the percentage contribution of sand, silt and clay to the soils labelled **B** and **C** on the triangular graph. [4]
- (ii) On the triangular graph, Resource 1E, plot accurately and label soil **D** (clay) using data from **Resource 1D**. [3]

| (iii) | Describe the circumstances in which triangular graphs are appropriate for presenting geographical data. |
|-------|---|
|       |   |
|       |   |
|       |   |
|       | [2]   |

100%



<u>/c</u> \_

% SILT

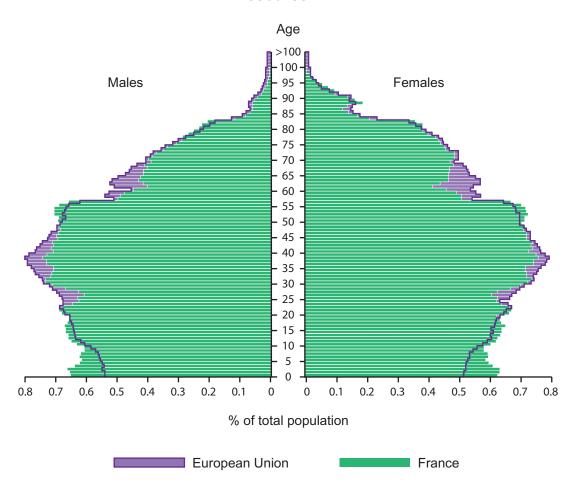
100%

Student Bounty.com 2 (a) Describe how birth rate, death rate and natural increase/decrease are related.

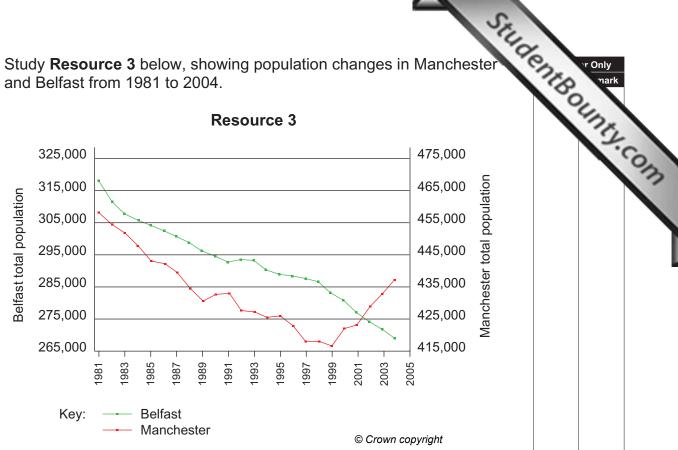
[2]

(b) Study Resource 2, comparing the population structure of France and the rest of the European Union in 2003.

### Resource 2



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(i) Name the urban process experienced in Manchester from 1999 to 2004.

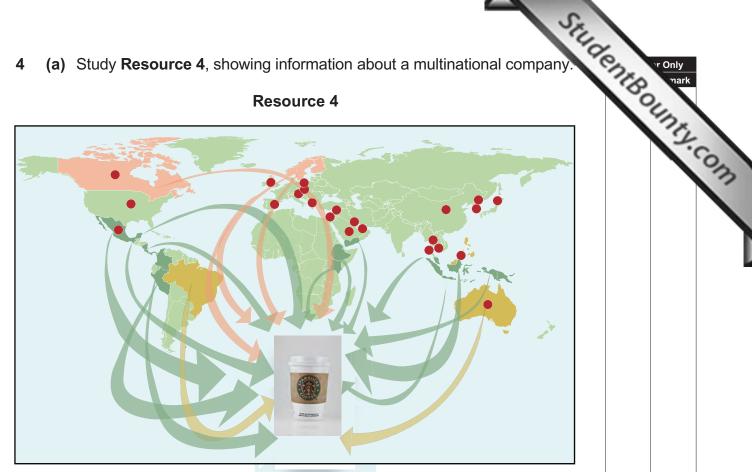
\_ [1]

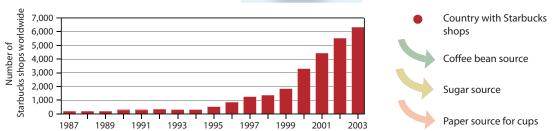
(ii) Name the urban process experienced in Belfast from 1981 to 2004.

[1]

(iii) Outline two effects this process would have had on the rural area around Belfast during this time.

### Resource 4





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|----------|-----------|------|--|--|
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|          |           |      |  |  |
|          |           |      |  |  |

Using **Resource 4**, describe the distribution of the countries

\_\_\_ [3]

### **Section C**

Answer any two questions in this section.

- Student Bounty.com "Population distribution is related to the availability of physical and human 5 resources." Discuss this statement with reference to your national case study.
- With reference to your case study, discuss the issues experienced in inner cities in MEDCs.
- 7 Define colonialism and neo-colonialism and discuss how these processes can affect development. [12]

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THIS IS THE END OF THE QUESTION PAPER

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