

Geography
Higher level and standard level
Paper 1

Thursday 3 May 2018 (afternoon)

Candidate session number

1 hour 30 minutes

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Instructions to candidates

- Do not open this examination paper until instructed to do so.
- Section A: answer all questions.
- Section B: answer one question.
- Answers must be written within the answer boxes provided.
- Use examples, maps and/or diagrams where relevant.
- The maximum mark for this examination paper is **[60 marks]**.



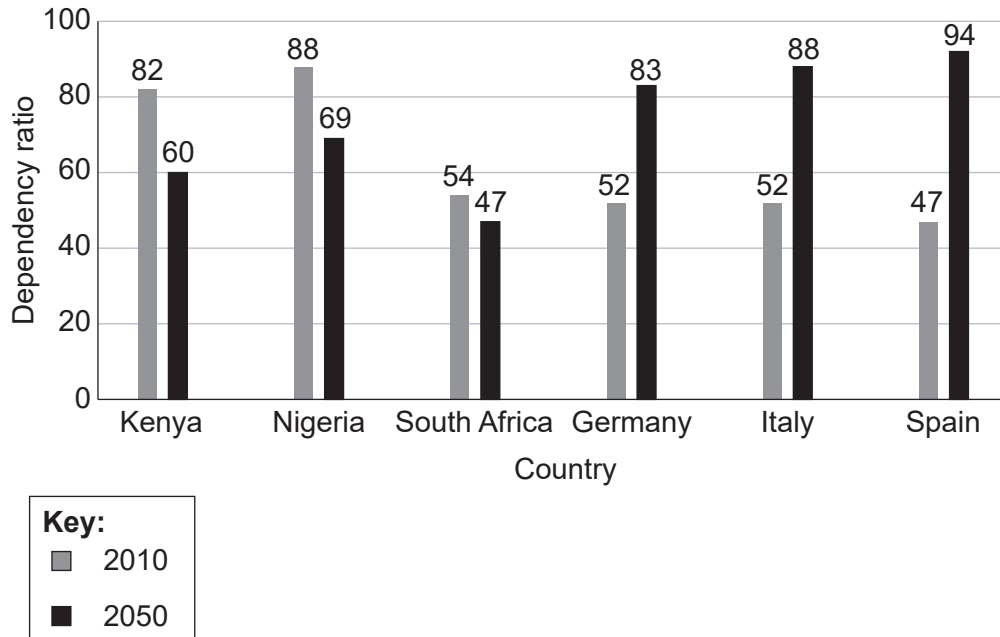
Core theme: patterns and change

Section A

Answer **all** questions. Answers must be written within the answer boxes provided.

1. Populations in transition

The graph shows the actual dependency ratios for 2010 and the predicted dependency ratios for 2050 for a selection of countries.



[Source: Graph adapted from Attitudes about ageing: A global perspective, Pew Research Center, Washington, D.C. January 30 2014, <http://www.pewglobal.org/2014/01/30/chapter-2-aging-in-the-u-s-and-other-countries-2010-to-2050/>.
Pew Research Center bears no responsibility for the analyses or interpretations of the data presented here.
The opinions expressed herein, including any implications for policy, are those of the author and not of Pew Research Center. Data adapted from United Nations, Department of Economic and Social Affairs, Population Division (2013).
World Population Prospects: The 2012 Revision, Volume II, Demographic Profiles (ST/ESA/SER.A/345).]

(This question continues on the following page)



(Question 1 continued)

(a) Outline how a country's dependency ratio is calculated.

[2]

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(b) Describe **two** predicted regional trends shown on the graph.

[2]

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Please **do not** write on this page.

Answers written on this page
will not be marked.



(Question 1 continued)

(c) Suggest **one** reason for the predicted change in Nigeria's dependency ratio. [2]

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(d) Suggest **one positive** and **two negative** socio-economic impacts of an ageing population for **one named** country. [2+2+2]

Named country:

Positive impact:

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Negative impact 1:

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Negative impact 2:

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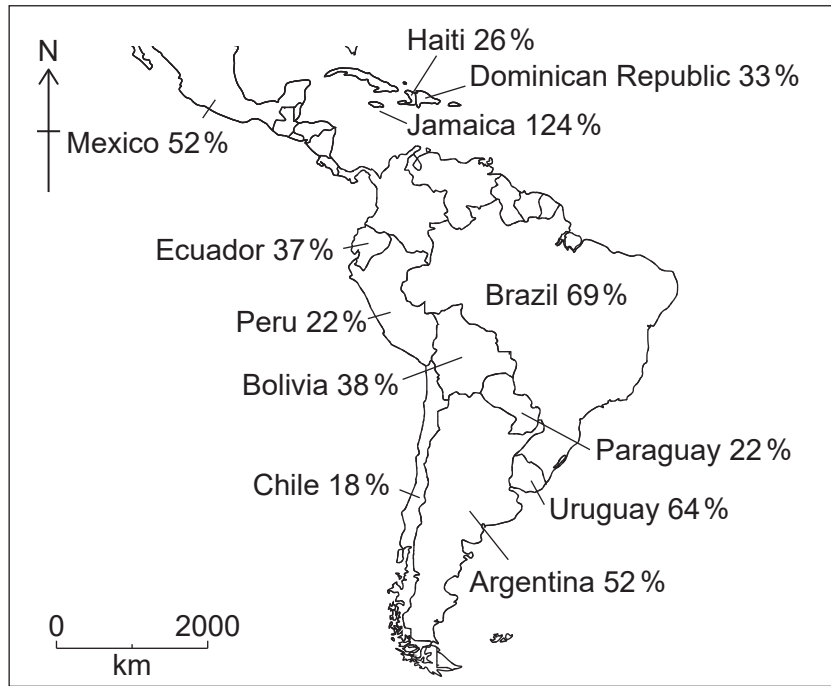
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2. Disparities in wealth and development

The map shows foreign debt as a percentage of gross national income (GNI) for a selection of countries in the Americas in 2015.



[Source: Courtesy of Stratfor Worldview, a geopolitical intelligence firm.]

(a) Briefly outline what is meant by:

(i) gross national income (GNI);

[1]

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(ii) foreign debt.

[1]

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(Question 2 continued)

(b) Identify which country on the map is most in need of debt relief and briefly justify your choice.

[1+2]

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(c) Explain, using examples, **two** ways in which increased trade may help reduce economic disparities between countries.

[2+2]

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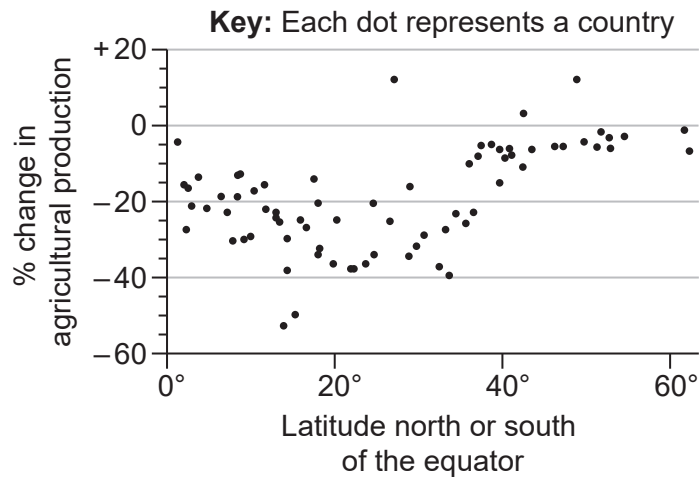
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3. Patterns in environmental quality and sustainability

The graph shows one estimate of the long-term impact of global climate change on agricultural production.



[Source: Republished with permission of International Monetary Fund, from *Global Warming and Agriculture in Finance & Development*, William R. Cline, Vol 45, Issue 1, 2007; permission conveyed through Copyright Clearance Center, Inc.]

(a) Describe how the estimated impact of climate change on agricultural production varies with latitude.

[3]

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(Question 3 continued)

- (b) Suggest **two** reasons why global climate change may lead to an increase in agricultural production in some places. [2+2]

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- (c) Distinguish between physical water scarcity and economic water scarcity. [4]

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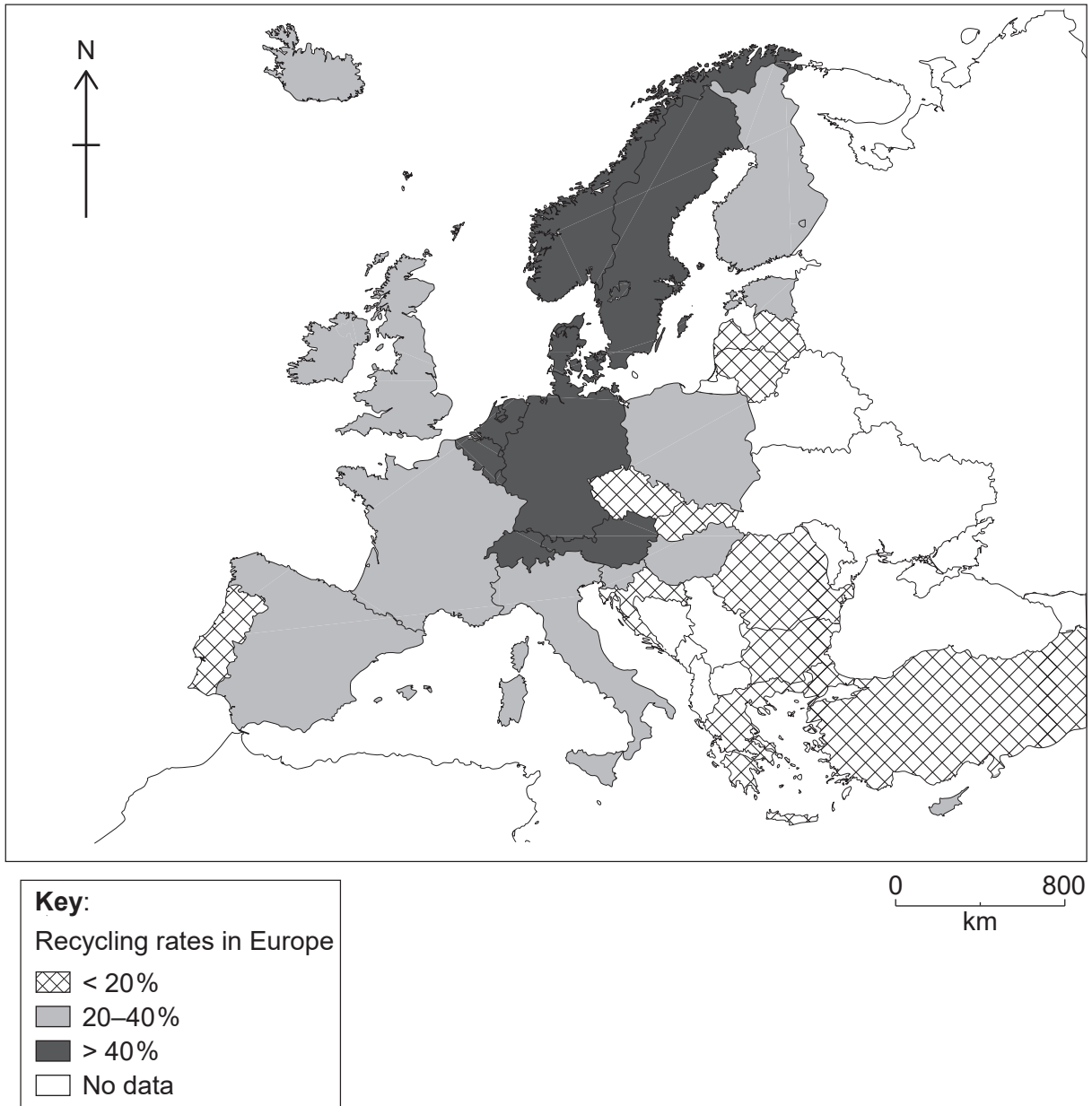
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4. Patterns in resource consumption

The map shows recycling rates for a selection of countries in Europe in 2016.



[Source: Data adapted from European Environment Agency: www.eea.europa.eu, European Commission (c) European Union, 1995-2018 and Eurostat © European Union, 1995 - today. Eurostat do not take any responsibility for any translations or modifications to the data.]

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(Question 4 continued)

(a) Describe the pattern of recycling rates shown on the map.

[3]

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(b) Suggest **two** reasons why recycling rates differ greatly between countries.

[2+2]

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(Question 4 continued)

(c) Explain **two** strengths **and one** weakness of **one** local or national strategy aimed at reducing the consumption of **one named** resource.

[2+2+2]

Named resource:

Local or national strategy:

Strength 1:

Strength 2:

Weakness:



