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GEOGRAPHY
HIGHER LEVEL AND STANDARD LEVEL
PAPER 1

Thursday 3 November 2011 (afternoon)

1 hour 30 minutes

Candidate session number

| 0 | 0 | | | | | | | | |

Examination code

| 8 | 8 | 1 | 1 | – | 5 | 2 | 0 | 1 |

INSTRUCTIONS TO CANDIDATES

- Do not open this examination paper until instructed to do so.
- Section A: answer all questions.
- Section B: answer one question.
- Write your answers on the lines in the boxes provided. If you need to continue your answer, use the blank space immediately below the lines provided in the box.
- Use examples, maps and/or diagrams where relevant.

Core Theme – Patterns and Change

SECTION A

*Answer **all** questions. Write your answers on the lines in the boxes provided. If you need to continue your answer, use the blank space immediately below the lines provided in the box.*

1. **Populations in transition**

The graph shows the predicted population pyramid for a country in 2025.

MALE   FEMALE

| | |
80+
75–79
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
5–9
0–4

80 000   60 000   40 000   20 000   0   0   20 000   40 000   60 000   80 000
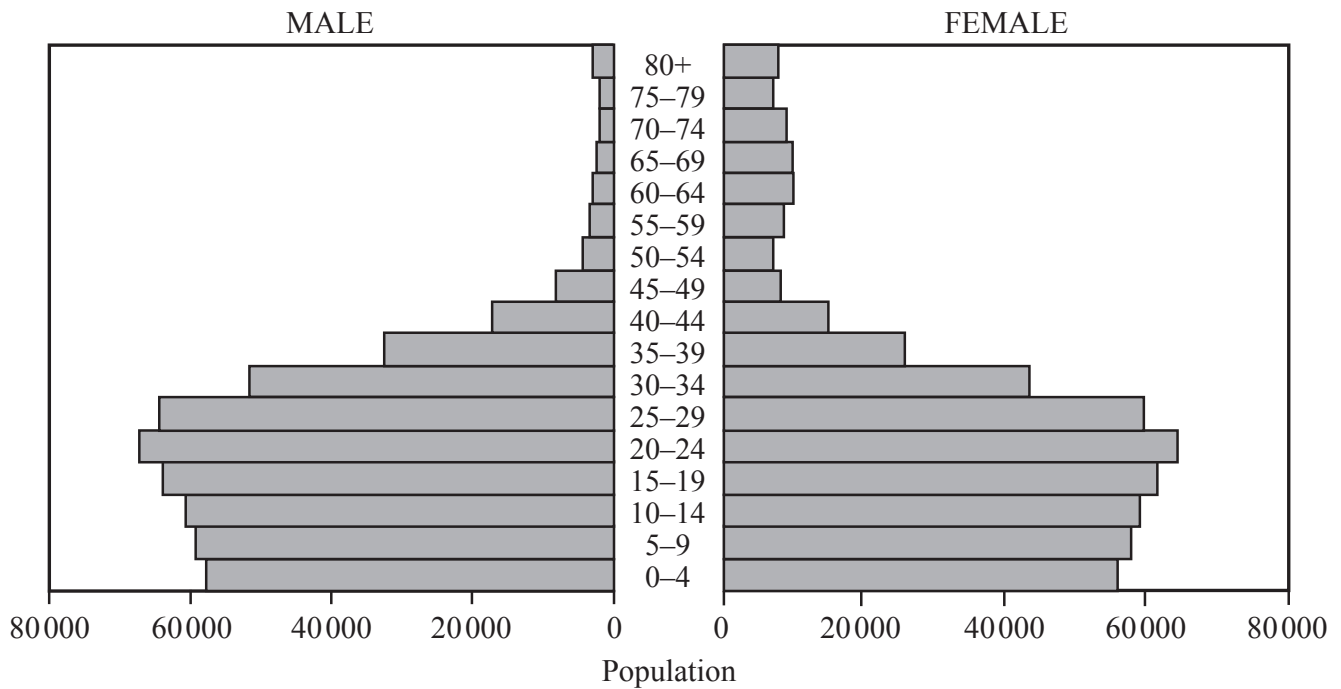
Population

[Source: adapted from U.S. Census Bureau, International Data Base]

(a)   Describe the predicted population structure of this country in 2025.   *[3]*

(This question continues on the following page)

(Question 1 continued)

(b)   Distinguish between a population projection and population momentum.   *[2]*

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(Question 1 continued)

(c)   Explain the economic impacts of an ageing population on a named country.   *[5]*

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will not be marked.

2. Disparities in wealth and development

The graph shows the progress made towards meeting the Millennium Development Goal (MDG) for universal primary education.

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http://www.un.org/millenniumgoals/pdf/The%20Millennium%20Development%20
Goals%20Report%202008.pdf

(a) With reference to the graph, describe the regional trends in the progress made towards meeting the 2015 target. *[3]*

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0620

(Question 2 continued)

(b)   Suggest **two** reasons why developing regions have made good progress towards meeting
      this MDG.   *[2+2]*

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2.   . . . .

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(Question 2 continued)

(c)   Explain how progress in education can help regions advance towards meeting **one**
        other MDG.   *[5]*

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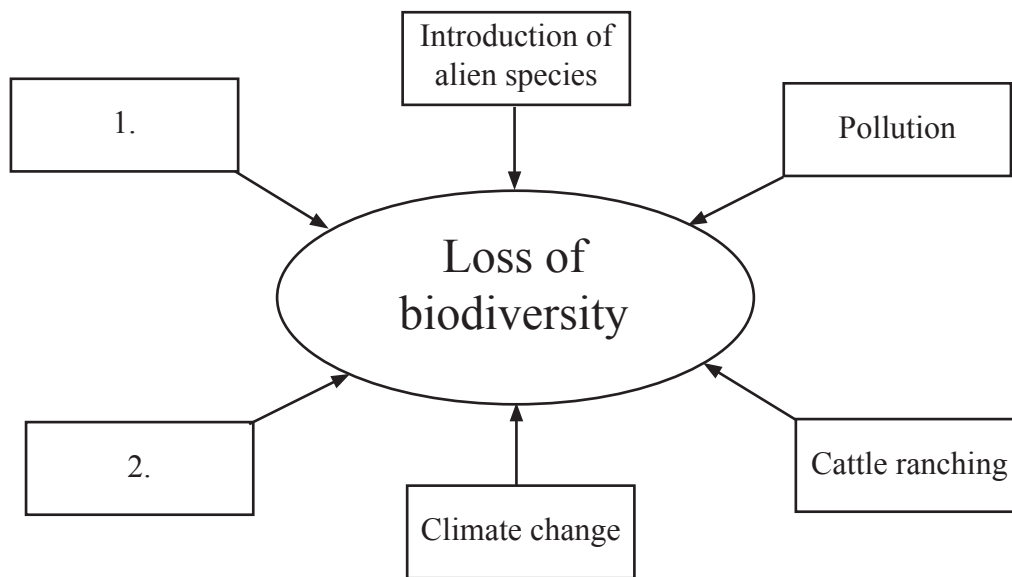
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3. **Patterns in environmental quality and sustainability**

The diagram shows factors contributing to the loss of biodiversity in tropical rainforests.

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        ┌──────────────┐
        │Introduction of│
        │ alien species │
        └──────────────┘
┌──────────┐     │          ┌──────────┐
│   1.     │     ▼          │ Pollution │
└──────────┘           ╭──────────╮  └──────────┘
         ↘            │ Loss of   │  ↙
                      │biodiversity│
┌──────────┐  ↗       ╰──────────╯  ↖  ┌──────────────┐
│   2.     │              ▲            │Cattle ranching│
└──────────┘     ┌──────────────┐     └──────────────┘
                 │Climate change │
                 └──────────────┘
```

(a) State **one** physical factor and **one** human factor not shown on the diagram that contribute to a loss of biodiversity. *[2]*

1. Physical factor: . . . .

. . . .

2. Human factor: . . . .

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(Question 3 continued)

(b)   Explain how any **one** of the factors **given on the diagram** contributes to a loss of biodiversity in tropical rainforests.   *[4]*

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(Question 3 continued)

(c)   Explain **three** reasons why biodiversity in tropical rainforests should be preserved.   *[3×2]*

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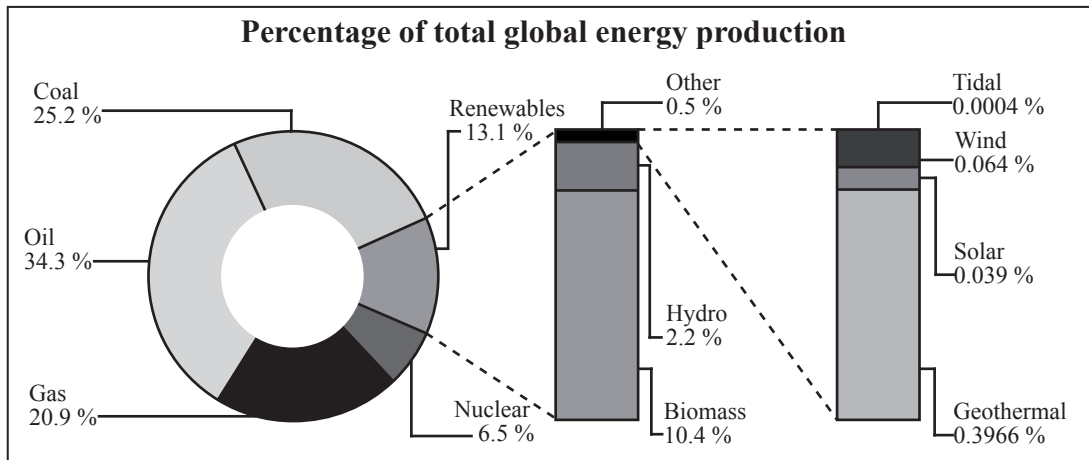
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4.   Patterns in resource consumption

The graph shows the different sources of global energy production.

Percentage of total global energy production

Coal
25.2 %

Oil
34.3 %

Gas
20.9 %

Renewables
13.1 %

Nuclear
6.5 %

Other
0.5 %

Hydro
2.2 %

Biomass
10.4 %

Tidal
0.0004 %

Wind
0.064 %

Solar
0.039 %

Geothermal
0.3966 %

[Source: Sunlit uplands, *The Economist* May 31 2007, The Economist Newspaper Limited.
Reproduced with permission.]

(a)   Identify and rank the top **three** renewable sources of energy shown on the graph from
        highest to lowest.   *[2]*

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(Question 4 continued)

(b)   Suggest **two** reasons why some areas of the world are unlikely to depend entirely on renewable energy sources.   *[2×2]*

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2.   ....

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(Question 4 continued)

(c)   Analyse how the global pattern of oil production has changed in recent decades.   *[5]*

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SECTION B

*Answer **one** question. Write your answer on the lines in the box provided.*

5. Discuss the ways in which the consumption of **one or more** resources can be reduced. *[15]*

6. "It is impossible to eliminate disparities in wealth and development." Discuss this statement. *[15]*

7. Examine the view that gender inequalities are a major obstacle to development. *[15]*

Turn over