Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth

Day

Month

Year

Scottish candidate number

Number of seat

Answer four questions: Section A Question 1 and Question 2

AND

Section B any two questions from Questions 3 to 7

1. Read the whole of each question carefully before you answer it.

2. Write in the spaces provided.

3. Where boxes like this are provided, put a tick (✓) in the box beside the answer you think is correct.

4. Extra paper may be obtained from the Invigilator, if required.

5. Before leaving the examination room you must give this book to the Invigilator. If you do not, you may lose all the marks for this paper.
SECTION A

IN THIS SECTION YOU MUST ANSWER QUESTION 1 AND QUESTION 2

Question 1: Physical Environments

Map Q1A: Selected Rivers in the British Isles

(a) Study Map Q1A.

Name the three rivers shown.

Choose from: Trent Forth Shannon Severn.

River A ____________________________

River B ____________________________

River C ____________________________

3
1. (continued)

Diagram Q1B: Hardraw Force Waterfall (grid square 8691)

(b) Look at Diagram Q1B.

**Explain** the formation of a waterfall.

You may use diagrams to illustrate your answer.

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Study the Ordnance Survey Map Extract (No 2111/OL30) and Diagram Q1C above.

(c) (i) **Explain** why Area X is suitable for sheep farming.

________________________________________________________________________

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________________________________________________________________________
1. (c) (continued)

(ii) Why do large numbers of tourists visit Hawes (8789) and the surrounding area each year?

(iii) What effect will large numbers of tourists have on people living and working in this area?
(d) Look at Diagram Q1D.

There are many disused quarries shown on the Ordnance Survey map extract which may spoil the appearance of the landscape. **Describe** ways in which their appearance can be improved.

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3

Total 20

[END OF QUESTION 1]

NOW GO ON TO QUESTION 2
Question 2: Human Environments

Map Q2A: World Population Density

(a) Study Map Q2A.

Explain why some parts of the world are more crowded than others.

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3
2. (continued)

Table Q2B: Birth Rates for India

<table>
<thead>
<tr>
<th>Year</th>
<th>Birth rate per 1000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>1900</td>
<td>45</td>
</tr>
<tr>
<td>1940</td>
<td>38</td>
</tr>
<tr>
<td>1980</td>
<td>32</td>
</tr>
<tr>
<td>2020 (projected)</td>
<td>18</td>
</tr>
</tbody>
</table>

(b) Study Table Q2B.

Describe methods that countries such as India are using to reduce their birth rate.
2. (continued)

Diagram Q2C: Rural – Urban Migration

(c) Look at Diagram Q2C.
Why do many people in developing countries move from **rural** to **urban** areas?

________________________________________________________________________

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________________________________________________________________________

________________________________________________________________________

Diagram Q2D: Changes in Farming in Developing Countries

- Using more machinery
- Making fields larger
- Increase in chemical fertilisers and pesticides

(d) Look at Diagram Q2D.
**Explain** problems caused by these changes.

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3
2. (continued)

Diagram Q2E: Traffic Congestion in Cities

(e) Look at Diagram Q2E.

For a developed city you have studied, describe methods of reducing traffic congestion.

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2. (continued)

Diagram Q2F: Changing Industrial Landscapes 1900 – 2014

1900

2014

(f) Look at Diagram Q2F.

Describe changes which have taken place in the industrial landscape from 1900 to 2014.

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3

Total 20

[END OF SECTION A]

NOW TURN TO SECTION B AND ANSWER ANY TWO QUESTIONS
SECTION B

Environmental Interactions

Answer any two questions from this section.

Choose from

Question 3  Rural Land Degradation  (Pages 14 to 15)
Question 4  River Basin Management  (Pages 16 to 17)
Question 5  European Environmental Inequalities  (Pages 18 to 19)
Question 6  Development and Health  (Pages 20 to 21)
Question 7  Environmental Hazards  (Pages 22 to 23)
SECTION B

Question 3: Rural Land Degradation

Diagram Q3A: Desertification

(a) Look at Diagram Q3A.

For an area you have studied, describe the effects of desertification on the people and the landscape.

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3. (continued)

Diagram Q3B: Causes of Rainforest Destruction

<table>
<thead>
<tr>
<th>Cause</th>
<th>Key</th>
<th>Percentage Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subsistence farming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plantation farming</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Cattle ranching</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logging</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Others (eg roads, dams, etc ...)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Study Diagram Q3B.

(b) (i) Using the pie chart, complete the three missing percentages in the table above.

(ii) Describe methods which can be used to reduce deforestation.

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Total 10
(a) Study Diagram Q4A.

Complete the diagram above which shows the Hydrological Cycle. Choose the words from the list below.

- condensation
- evaporation
- precipitation
- run-off
(b) Look at Diagram Q4B.

(i) **Explain** the advantages of any water control project you have studied.

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(ii) **Describe** problems caused by the project.

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Total 10
Question 5: European Environmental Inequalities

Diagram Q5A: Nitrate Pollution Levels in European Rivers

(a) Study Diagram Q5A.

Describe in detail the changes in nitrate levels in European rivers between 1960 and 2010.
5. (continued)

(b) Choose either two coastal areas or two mountain areas you have studied. **Explain** the differences in environmental quality between the two areas you have chosen.

---

Diagram Q5B: Environmental Quality

Rivers

Mountain Areas

Look at Diagram Q5B.

(c) **Describe** methods used to improve the environmental quality of a coastal or mountain area you have studied.

---

Total 10
Question 6: Development and Health

Table Q6A: Selected Development Indicators

<table>
<thead>
<tr>
<th>Birth Rate per 1000 of the population</th>
<th>Life Expectancy</th>
<th>Average Income per person (US Dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyprus</td>
<td>11</td>
<td>79</td>
</tr>
<tr>
<td>Mali</td>
<td>46</td>
<td>46</td>
</tr>
<tr>
<td>Japan</td>
<td>8</td>
<td>82</td>
</tr>
</tbody>
</table>

(a) Study Table Q6A above.

Which one of the countries shown in the table above do you think is the most developed?

Choice: ________________________________

Give reasons for your choice.

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3
6. (continued)

Diagram Q6B: AIDS Patients

(b) Look at Diagram Q6B above.

Describe the causes of AIDS.

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3

(c) Choose one of the following diseases.

AIDS       MALARIA       HEART DISEASE

Describe the methods used to control your chosen disease.

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4

Total 10
Question 7: Environmental Hazards

Map Q7A: Distribution of Tropical Storms

(a) Study Map Q7A.

(i) **Describe** the distribution of tropical storms.

(ii) **Explain** the causes of a tropical storm.

---

3

3
7. (continued)

Diagram Q7B: Newspaper Headline

EMERGENCY DISASTER COMMITTEE SAYS
“SHORT TERM AID NEEDED URGENTLY, BUT HELP ALSO NEEDED IN THE LONG TERM”

(b) Look at Diagram Q7B.

For an earthquake or volcanic eruption you have studied, describe examples of short term and long term aid.

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________________________ 4

Total 10

[END OF QUESTION PAPER]
ACKNOWLEDGEMENTS

Diagram Q1B – Andrew Roland/shutterstock.com
Diagram Q6B – Spirit of America/shutterstock.com
ORDNANCE SURVEY MAP

Note: The colours used in the printing of this map extract are indicated in the four little boxes at
the top of the map extract. Each box should contain a colour; if any does not, the map is
incomplete and should be returned to the Invigilator.