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 Landscapes in Scotland

(a) Study Map Q1A.

In the table below, name the selected landscape features.

Choose from: River Forth; North West Highlands; River Tay; Buchan; Cairngorms.

<table>
<thead>
<tr>
<th>River A</th>
<th>Upland Area B</th>
<th>Coastal Area C</th>
</tr>
</thead>
</table>

[3 marks]
1. (continued)

(b) Study the Ordnance Survey Map Extract (No 2053/101) of Scarborough. Match the following grid references with the river features in the table below.

<table>
<thead>
<tr>
<th>River Feature</th>
<th>Grid Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Plain</td>
<td></td>
</tr>
<tr>
<td>V shaped Valley</td>
<td></td>
</tr>
<tr>
<td>Ox Bow Lake</td>
<td></td>
</tr>
</tbody>
</table>

Diagram Q1B: Scarborough

(c) Look at Diagram Q1B. Scarborough is situated on a headland and two bays. **Explain** the formation of headlands and bays. You may use diagrams to illustrate your answer.
1. (continued)

Diagram Q1C: Langdale Forest, North York Moors (Grid Reference 9195)

(d) Study the Ordnance Survey Map Extract (No 2053/101) and Diagram Q1C above.

Much of the area shown on the map is planted with coniferous trees.

**Explain** why these areas are suitable for forestry.

________________________________________________________________________

________________________________________________________________________

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(e) Part of the North York Moors National Park is shown on the Map Extract (No 2053/101).

It has over 7 million visitors each year.

For any **upland** area you have studied:

(i) **explain** the impact tourists may have on the landscape;

________________________________________________________________________

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1. (e) (continued)

(ii) **describe** ways in which the impact of tourism can be reduced.

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3

Total 20

[END OF QUESTION 1]

NOW GO ON TO QUESTION 2

[Turn over
Question 2: Human Environments

Diagram Q2A: Projected World Population Growth

(a) Study Diagram Q2A.

(i) Describe the changes shown in the graph for developed and developing countries.

(ii) What problems are developing countries likely to face as a result of this population growth?
Diagram Q2B: The Growth of Cities

(b) Study Diagram Q2B.

(i) **Explain** why many towns and cities are spreading into the countryside.

(ii) **Describe** the problems caused in the countryside by the growth of towns and cities.
2. (continued)

Diagram Q2C: Shopping in the UK

Street Market

Shopping Mall

(c) Study Diagram Q2C.
Street markets and shopping malls are common methods of shopping in the UK.
Describe the advantages of both types of shopping.

(d) Explain why industry is growing very quickly in developing countries such as India and China.
SECTION B

Environmental Interactions

Answer any two questions from this section.

Choose from

Question 3  Rural Land Degradation  (Pages 10 to 11)
Question 4  River Basin Management  (Pages 12 to 13)
Question 5  European Environmental Inequalities  (Pages 14 to 15)
Question 6  Development and Health  (Pages 16 to 17)
Question 7  Environmental Hazards  (Pages 18 to 19)

[Turn over]
Question 3: Rural Land Degradation

Diagram Q3A: Climate Graph for Jodhpur  
Map Q3B: Jodhpur, India

(a) Study Diagram Q3A and Map Q3B.

(i) Describe in detail the climate of Jodhpur.

__________________________________________________________________________

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(ii) For Jodhpur, or any other area you have studied, explain the causes of desertification.

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__________________________________________________________________________

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__________________________________________________________________________
3. (continued)

Diagram Q3C: Deforestation

(b) Look at Diagram Q3C.

For a forest area you have studied, describe the effects of deforestation on people and the environment.

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4

Total 10

[Turn over
Question 4: River Basin Management

Diagram Q4A: Proposed Site for a New Dam

(a) Study Diagram Q4A.

It is proposed to build a new dam at site X.

Describe the advantages of this site for the dam.
Diagram Q4B: Water Use in a River Basin

(b) Diagram Q4B shows the use of water in a river basin.

Use the figures provided to complete the graph for 2013.

Domestic – 7,000 litres
Industrial – 15,000 litres
Agriculture – 6,000 litres

(c) For any water control project you have studied, **describe** the problems which the project has caused.
Question 5: European Environmental Inequalities

Map Q5A: Sulphur Dioxide (SO₂) Emissions in Europe

(a) Study Map Q5A.

Describe the pattern of sulphur dioxide emissions shown.

[Space for answer]

[Space for answer]

[Space for answer]

[Space for answer]
5. (continued)

Diagram Q5B: Rivers in the British Isles

South East England

North East Scotland

(b) Look at Diagram Q5B.

For any two rivers you have studied, explain differences in their environmental quality.

(c) Describe methods used to improve the quality of any river you have studied.

Total 10
Question 6: Development and Health

Diagram Q6A: Indicators of Development

<table>
<thead>
<tr>
<th>Indicator</th>
<th>South Korea</th>
<th>Malawi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birth Rate (per 1,000)</td>
<td>10</td>
<td>44</td>
</tr>
<tr>
<td>Human Development Index</td>
<td>0.9</td>
<td>0.4</td>
</tr>
<tr>
<td>GNI per capita (US Dollars)</td>
<td>30,000</td>
<td>340</td>
</tr>
<tr>
<td>Patients per doctor</td>
<td>300</td>
<td>50,000</td>
</tr>
</tbody>
</table>

(a) From Diagram Q6A, give an example of:

an economic indicator ____________________________

a social indicator ____________________________

a combined indicator ____________________________ 3

(b) Describe the main causes of heart disease.

____________________________________

____________________________________

____________________________________

____________________________________ 3
6. (continued)

(c) Choose **either** malaria **or** heart disease **or** AIDS.

Your choice: __________________________

Describe methods used to control the disease.

_________________________________________________________________________________

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4

Total 10
Question 7: Environmental Hazards

Map Q7A: Distribution of World Volcanoes

(a) Study Map Q7A.

(i) Describe the distribution of volcanoes.

(ii) Explain the main causes of a volcanic eruption.
7. (continued)

Diagram Q7B: Damage caused by Tropical Storm Isaac 2012

(b) Look at Diagram Q7B.
For a tropical storm you have studied, describe how it affected people and the landscape.

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4

Total 10

[END OF QUESTION PAPER]
ACKNOWLEDGEMENTS

Question 1(c) – 33268192 Shutterstock.com
Question 1(d) – 89324545 Shutterstock.com
Question 2(c) – 21143044 Shutterstock.com; 88393786 Shutterstock.com
Question 3(b) – 50903608 Shutterstock.com
Question 7(b) – 76171975 Shutterstock.com
ORDNANCE SURVEY MAP

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