Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided — *there may be more space than you need.*

Information

- The total mark for this paper is **54**.
- The marks for **each** question are shown in brackets — *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed — *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*
- The marks available for spelling, punctuation and grammar are clearly indicated.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.
SECTION A: GEOGRAPHICAL SKILLS

Answer ALL questions in this section.

1. (a) Study the Ordnance Survey (OS) map extract and Figure 1a (photograph) and Figure 1b in the Resource Booklet.
   
   (i) Identify the settlement shown within the dotted line (Figure 1a).

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   (ii) From the top of Caer Caradoc, what is the compass direction of All Stretton (4695)?

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   (iii) What is the distance along the primary route road between points A (464950)
        and B (452928) shown on Figure 1b?

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   (b) Suggest why the site of Little Stretton (4491) may have been chosen for a settlement.

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   (3)
(c) Using the OS map extract, suggest reasons for the pattern of transport in the area shown on Figure 1c.

(Total for Question 1 = 9 marks)
2 (a) Study Figure 2a and the OS map extract.

![Figure 2a](image)

**Figure 2a**

A valley cross-section from grid square 400944 to 470944

(i) Identify the features found at locations X, Y and Z on Figure 2a.

(ii) On Figure 2a, mark on the cross section with V the location of Carding Mill Valley.
(b) Figure 2b shows river data collected by a group of students visiting Carding Mill Valley.

<table>
<thead>
<tr>
<th>Site</th>
<th>Distance from source (m)</th>
<th>Average depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50</td>
<td>0.05</td>
</tr>
<tr>
<td>2</td>
<td>200</td>
<td>0.06</td>
</tr>
<tr>
<td>3</td>
<td>450</td>
<td>0.08</td>
</tr>
<tr>
<td>4</td>
<td>550</td>
<td>0.07</td>
</tr>
<tr>
<td>5</td>
<td>1000</td>
<td>0.15</td>
</tr>
<tr>
<td>6</td>
<td>1200</td>
<td>0.20</td>
</tr>
<tr>
<td>7</td>
<td>1800</td>
<td>0.22</td>
</tr>
<tr>
<td>8</td>
<td>2500</td>
<td>0.28</td>
</tr>
<tr>
<td>9</td>
<td>3200</td>
<td>0.30</td>
</tr>
<tr>
<td>10</td>
<td>3600</td>
<td>0.26</td>
</tr>
</tbody>
</table>

Figure 2b
River data from Carding Mill Valley

(i) Complete the scatter graph (Figure 2c) for sites 5 and 6 using the information in Figure 2b.

Figure 2c
A scatter graph of river depth and distance from source
(ii) Describe the relationship between distance from source and average depth.

(Total for Question 2 = 9 marks)
3 (a) Study Figure 3 in the Resource Booklet.

(i) Describe the characteristics of the population pyramid. Use data in your answer. (3)

(ii) State one limitation of using census data as a part of geographical research. (1)

(b) Explain how you might use a computer to analyse census and population data. (3)

(Total for Question 3 = 7 marks)

TOTAL FOR SECTION A = 25 MARKS
SECTION B: CHALLENGES FOR THE PLANET

Answer ALL questions in this section.

Spelling, punctuation and grammar will be assessed in 5*(b).

4 (a) Study Figure 4a in the Resource Booklet.

(i) Describe the pattern of the predicted impact on crop yields of a 3°C rise in global temperatures. (3)

(ii) Explain how the actions of people contribute to climate change. (4)
(b) Study Figure 4b.

Volcanic eruptions ‘contributed to global warming pause’, scientists claim

Figure 4b

A newspaper headline linking volcanic eruptions and climate change

(i) Explain why volcanic activity causes climate change on a global scale. (3)
(ii) Outline one attitude towards climate change.

(Total for Question 4 = 12 marks)
5  (a) Study Figure 5 in the Resource Booklet.

The Bus Rapid Transit system (BRT) has significantly reduced the number of road traffic deaths along the Avenida Caracas in Bogotá since it was introduced in 1999.

Suggest the advantages of sustainable transport schemes such as the BRT for people in urban areas.

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*(b) Tropical rainforests are a rich source of natural resources which many companies wish to extract.

Examine contrasting management approaches in tropical rainforests where resources are being extracted.

Use examples in your answer.
Information

- This Resource Booklet contains photographs, graphs and diagrams needed for use with the Unit 1 Geographical Skills and Challenges examination. This Resource Booklet is for use with both Foundation and Higher tiers.
Figure 1a

A view from the top of Caer Caradoc (4795)
Figure 1b

An aerial view of part of the OS map extract

(Source: © 2015 Google terrametrics)
Figure 3

A population pyramid for the main settlements in south Shropshire, 2011
Figure 4a

The predicted impact on crop yields of a 3°C rise in global temperatures
Figure 5

Changes in road traffic deaths along Avenida Caracas – a main road in Bogotá, Colombia, 1997–2008

(Source: EMBARQ Analysis, based on data provided by TRANSMILENIO S.A.)