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.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 (a) Study the Ordnance Survey (OS) map extract and Figure 1 in the Resource Booklet.

The following questions are multiple choice. Put a cross in the box of the answer that you select. **There is only one correct answer to each question.**

(i) What is the four-figure grid reference for the grid square containing the small village of Rooks Bridge (on the northern edge of the map extract 1 km east of the M5)?

- [ ] A 3444
- [ ] B 4347
- [ ] C 3652
- [ ] D 3050

(ii) Figure 1 shows a photograph taken from the summit of Brent Knoll (341509). In approximately which direction was the camera pointing?

- [ ] A north
- [ ] B south
- [ ] C east
- [ ] D west

(b) Describe the **pattern** of roads in the area to the south of Mark (3747) and north of the River Brue (3844).
(c) Burtle (3943) is a village found in the south east of the map extract.

Complete the paragraph by filling in the gaps using some of the words in the box below.

- flooding
- high
- Cripps
- contour
- drought
- north
- low
- Brue
- west
- electricity

Burtle is found on ............................................................ ground, located between the

River ............................................................ and the South Drain.

There are no ............................................................ lines found near Burtle.

The flat land means that the area is liable to ............................................................ .

To the ............................................................ of Burtle there is a dismantled railway.

(d) Describe the shape of the settlement at Wedmore (4347).

........................................................................................................................... ...
........................................................................................................................... ...
........................................................................................................................... ...
........................................................................................................................... ...

(e) What is the distance along the Huntspill River between Gold Corner (367432) and
where it passes under the railway (318444)?

- □ A 5km
- □ B 6km
- □ C 7km
- □ D 8km
(f) There are a number of places of tourist interest shown on the map.

Complete the table below by giving an example of tourist interest found in each of the grid squares shown.

An example row has been completed for you.

<table>
<thead>
<tr>
<th>Grid square</th>
<th>Example of place of tourist interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>3447</td>
<td>Cider Farm</td>
</tr>
<tr>
<td>3947</td>
<td></td>
</tr>
<tr>
<td>4041</td>
<td></td>
</tr>
</tbody>
</table>

(Total for Question 1 = 14 marks)
2 (a) Study Figure 2 in the Resource Booklet.

(i) Using data from the survey, compare the different activities of visitors to Burnham-on-Sea aged 30–50.

(ii) Using the data in Figure 2, complete the compound bar chart below for the ages 51–65.
(b) Students evaluated the results of this visitor survey in Burnham-on-Sea (Figure 2).

Which of the following best describes one limitation of this survey? (1)

☐ A  It was only carried out on one day.
☐ B  The weather was very hot.
☐ C  It was only carried out in Burnham.
☐ D  Only visitors over 50 years of age were surveyed.

(Total for Question 2 = 5 marks)
*3 Study Figures 3a and 3b in the Resource Booklet. 

Describe how you would **use** the internet and GIS (Geographical Information Systems) to investigate flood risk and its impacts.

Internet 

GIS 

(Total for Question 3 = 6 marks) 

TOTAL FOR SECTION A = 25 MARKS
4 (a) Study Figure 4 in the Resource Booklet.

(i) Choose one statement from each of the two lists below which best describes the different greenhouse gas predictions.

<table>
<thead>
<tr>
<th>List 1</th>
<th>List 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Business as usual&quot; suggests that global greenhouse gas emissions after 2010 will:</td>
<td>&quot;Better management&quot; suggests that global greenhouse gas emissions after 2010 will:</td>
</tr>
<tr>
<td>□ A stay constant at 2010 levels</td>
<td>□ A slowly decrease</td>
</tr>
<tr>
<td>□ B increase much more rapidly than 2000 to 2010</td>
<td>□ B stay the same</td>
</tr>
<tr>
<td>□ C increase at a similar rate from 2000 to 2010</td>
<td>□ C increase more than &quot;Business as usual&quot;</td>
</tr>
<tr>
<td>□ D slowly decrease from 2010 levels</td>
<td>□ D continue slowly increasing</td>
</tr>
</tbody>
</table>

(ii) Which one of the following gases is thought to contribute most to climate change?

□ A methane
□ B hydrogen
□ C oxygen
□ D nitrogen

(iii) Outline one human cause that contributes to an increase in the amount of greenhouse gases in the Earth's atmosphere.
(b) Complete the sentences about responses to climate change.

Use some of the words in the box below.

- governments
- national
- global
- renewables
- local
- energy
- waste
- emissions
- atmosphere
- lithosphere

There is a range of responses to climate change from

both ........................................................... to individuals at a

more ........................................................... scale.

Some people have tried to reduce their environmental impact by

using less ........................................................... and doing more recycling.

Some governments have agreed to cut carbon ...........................................................

so reducing the amount of carbon dioxide released into

the ........................................................... .

(c) Look again at the OS map extract of the area to the east of Burnham-on-Sea.

(i) Future sea level rise is one worry for people who live in this area.

Which of the following two grid squares are most at risk of future flooding due to sea level rise?

- A 4150
- B 4052
- C 4147
- D 3644
- E 3046
- F 3451
(ii) Describe one feature that shows people have tried to manage water levels in this area.

Use evidence from the OS map extract in your answer.

(2)

(d) Describe the negative effects of rising sea levels.

(3)

(Total for Question 4 = 17 marks)
5  (a) Briefly describe **two** examples of policies or actions that large organisations can use to become more sustainable.

(2)

Policy/Action 1

.......................................................................................................................... ...
.......................................................................................................................... ...

Policy/Action 2

.......................................................................................................................... ...
.......................................................................................................................... ...

Turn over
*(b) Using examples, explain how sustainable schemes can be used to manage transport in urban areas.*

(Total for spelling, punctuation and grammar = 4 marks)
(Total for Question 5 = 12 marks)

TOTAL FOR SECTION B = 29 MARKS
TOTAL FOR PAPER = 54 MARKS
Information

This Resource Booklet contains photographs, maps 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 1 – A view from the summit of Brent Knoll (341509).
<table>
<thead>
<tr>
<th>Activity</th>
<th>Under 30</th>
<th>30–50</th>
<th>51–65</th>
<th>Over 65</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog walking</td>
<td>10</td>
<td>32</td>
<td>42</td>
<td>8</td>
<td>92</td>
</tr>
<tr>
<td>Jogging</td>
<td>6</td>
<td>16</td>
<td>12</td>
<td>6</td>
<td>40</td>
</tr>
<tr>
<td>Visiting friends</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>17</td>
</tr>
<tr>
<td>Sightseeing</td>
<td>4</td>
<td>8</td>
<td>9</td>
<td>6</td>
<td>27</td>
</tr>
<tr>
<td>Totals</td>
<td>27</td>
<td>56</td>
<td>63</td>
<td>30</td>
<td>176</td>
</tr>
</tbody>
</table>

Figure 2 – Results from a survey of visitors to Burnham-on-Sea, January 19th 2013.
Calls for emergency action as Somerset Levels farmers face flood disruption

Farmers on the Somerset Levels may have to wait until at least the end of the year before their land can be replanted after serious flooding over the last few weeks.

Days of heavy rain brought fresh flooding and more misery for farmers in the area with more rain to fall over the weekend.

The River Brue on the Somerset Levels about to flood, with Glastonbury Tor in the distance

(Source: adapted from http://www.thisissomerset.co.uk/story-16446865-detail/story.html#axzz2LWrEvhZr)

Figure 3a – An extract from a website showing the impacts of flooding for local farmers on the Somerset Levels.
Figure 3b – An Environment Agency GIS map showing flood risk (from rivers and the sea) around Burnham-on-Sea, Somerset.
SECTION B – CHALLENGES FOR THE PLANET

Figure 4 – Two predictions made in 2010 about global greenhouse gas emissions.

"Business as usual" – continue as we are with no controls on greenhouse gas emissions.

"Better management" – there is a managed reduction in greenhouse gas emissions.

Figure 4 – Two predictions made in 2010 about global greenhouse gas emissions.