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 50.
- 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.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- 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) Look at the Ordnance Survey (OS) map extract of the Ledbury and Malvern area and Figure 1a (photograph) in the Resource Booklet.

(i) The photograph was taken in grid square 7641 looking south east towards the village of Welland.
Name the land feature at Z.

☐ A post office  
☐ B public house  
☐ C windmill with or without sails  
☐ D current or former place of worship with spire

(ii) Which one of the following abbreviations (symbols) can be seen on the map in grid squares 7939 and 7940 but cannot be seen on the photograph?

☐ A public convenience  
☐ B milepost  
☐ C post office  
☐ D clubhouse

(iii) Describe the shape of Welland.
Use map and / or photographic evidence in your answer.

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(b) Look at the OS map extract of the Ledbury and Malvern area and Figure 1b.
(i) A number of woodland areas have been marked on Figure 1b (sketch map). The outlines of other woodland areas have been drawn. Use the key provided on the sketch map to shade on Figure 1b.

1. one area of coniferous woodland
2. one area of non-coniferous woodland.

(ii) Mark the following on Figure 1b. Use the key provided on the sketch map.

1. the M50 motorway
2. the urban area of Ledbury.

(c) Complete the sentences to describe the land use shown on Figure 1b. Use some of the words in the box below.

<table>
<thead>
<tr>
<th>woodland</th>
<th>north west</th>
<th>south west</th>
<th>farmland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadon</td>
<td>Eastnor</td>
<td>Ledbury</td>
<td>scrubland</td>
</tr>
</tbody>
</table>

The urban area of Ledbury is to the .............................................................. of the area.

The land use to the south west of the area is ...............................................................

The River .............................................................. flows through the area.

The land use in the north east of the area is mainly .............................................................. with a few small settlements such as .............................................................. in grid square 7337.
(d) State **two** differences between the land use in the area shown by Figure 1b and the land use in the area marked by a red rectangle on the OS map extract.

(2)

Difference 1

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

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

Difference 2

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

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

(Total for Question 1 = 16 marks)
2 (a) Look at Figure 2a.

It is an incomplete rose diagram showing some of the results of a questionnaire carried out in the car park in grid square 7640.

The bars show the direction from which people had travelled to visit the Malvern Hills.

(i) In which direction is Ross-on-Wye from the car park?

(ii) Complete Figure 2a with the information below drawn in approximately the correct direction.

Use the OS map extract to help you.

<table>
<thead>
<tr>
<th>Where have you travelled from today?</th>
<th>Number of people</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellington Heath (7140)</td>
<td>6</td>
</tr>
<tr>
<td>Upton upon Severn (8540)</td>
<td>3</td>
</tr>
</tbody>
</table>

Figure 2a
(iii) A rose diagram is the best way to present this type of data because it

☐ A only shows the distance travelled
☐ B shows two pieces of information on one diagram
☐ C shows number of people and distance they travelled
☐ D is the only way to display this type of data

(b) Students found out some more information about the places from which people had travelled.

This is shown in Figure 2b.

<table>
<thead>
<tr>
<th>Where have you travelled from today?</th>
<th>Distance to car park (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worcester</td>
<td>20</td>
</tr>
<tr>
<td>Gloucester</td>
<td>35</td>
</tr>
<tr>
<td>Ross-on-Wye</td>
<td>30</td>
</tr>
<tr>
<td>Wellington Heath</td>
<td>10</td>
</tr>
<tr>
<td>Upton upon Severn</td>
<td>10</td>
</tr>
</tbody>
</table>

**Figure 2b**

Describe the results shown in Figure 2a and 2b.

Use evidence in your answer.

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(Total for Question 2 = 9 marks)

TOTAL FOR SECTION A = 25 MARKS
3 (a) Look at Figure 3.

It shows the retreat of the Sheldon Glacier in Antarctica between 1947 and 2007.

<table>
<thead>
<tr>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position of glacier front</td>
</tr>
<tr>
<td>Orange</td>
</tr>
<tr>
<td>Purple</td>
</tr>
<tr>
<td>Blue</td>
</tr>
<tr>
<td>Red</td>
</tr>
</tbody>
</table>

Figure 3
(i) What is the maximum retreat of the Sheldon Glacier between 1947 and 2007?

- A 2 km
- B 3 km
- C 4 km
- D 5 km

(ii) In which time period was the maximum retreat?

- A 1947 to 1967
- B 1967 to 1987
- C 1987 to 2007
- D 1947 to 1987

(iii) Complete the sentences to explain the effects of climate change.

Use some of the words in the box below.

<table>
<thead>
<tr>
<th>Pacific</th>
<th>increasing</th>
<th>rainfall</th>
<th>decreasing</th>
<th>Equator</th>
<th>temperature</th>
<th>Atlantic</th>
</tr>
</thead>
</table>

In some countries close to the .........................................................., crop yields are .......................................................... because of the lack of ..........................................................

In other parts of the world different crops can be grown because the temperature is ..........................................................

Global sea levels are rising. This means that many islands in the .......................................................... will be covered with sea water.
(b) One of the causes of climate change is the burning of fossil fuels.

(i) An example of a fossil fuel is

- A grass
- B coal
- C water
- D wind

(ii) When fossil fuels are burnt to produce energy they release gases such as

- A carbon dioxide
- B ozone
- C oxygen
- D hydrogen

(iii) The gases released by the burning of fossil fuels cause the greenhouse effect which leads to

- A an increase in global rainfall
- B a decrease in global temperatures
- C an increase in global temperatures
- D a decrease in global rainfall

(c) Another cause of climate change is an increase of methane in the atmosphere.

State two reasons for this increase in methane.

Reason 1

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

Reason 2

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

(Total for Question 3 = 12 marks)
4 (a) Look at Figure 4.

It shows the destruction of the tropical rainforest.


Use rainforest destruction data in your answer. (3)
(ii) Outline the effects of resource exploitation on tropical rainforest areas.

Use examples in your answer.

(4)
*(b) Explain how transport is being managed in urban areas. Use located examples of sustainable transport schemes in your answer.*

(Total for Question 4 = 13 marks)

TOTAL FOR SECTION B = 25 MARKS
TOTAL FOR PAPER = 50 MARKS

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Information

This Resource Booklet contains a photograph needed for use with the Unit 1: Geographical Skills and Challenges examination. This Resource Booklet is for use with both foundation and higher tiers.