GCSE
4232/01
GEOGRAPHY
(Specification A)
FOUNDATION TIER
UNIT 2: Options Geography

A.M. THURSDAY, 22 May 2014
1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES
Use black ink or black ball-point pen.
Write your name, centre number and candidate number in the spaces at the top of this page.
Answer one question from Section A, one from Section B and one other.
Answer no more than three questions.
Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

INFORMATION FOR CANDIDATES
The number of marks is given in brackets at the end of each question or part-question.
You are reminded that assessment will take into account the quality of written communication used in your answers that involve extended writing.
In addition, your ability to spell, punctuate and use grammar accurately will be assessed in your answer to the last sub-question of each theme.
SECTIO N A - PHYSICAL OPTIONS

Answer at least one question from this section, but no more than two.

Theme 7 – Our Changing Coastline

1. (a) Study the map and the photograph below.

Coastal areas at risk of a 2 metre rise in sea level

![Map showing coastal areas at risk](image)

A photograph of rock armour/rip rap at the top of a beach

![Photograph of rock armour](image)

(i) Which part of the UK is most at risk from a 2 metre rise in sea level? Underline the correct answer below. [1]

- eastern England
- southern England
- Wales

(ii) Give two reasons why sea defences such as rock armour are placed along the UK coastline. [2]

(iii) Sea defences like the one used in the photograph are known as hard engineering. Describe disadvantages of hard engineering strategies. [3]
(b) Study the OS map extract below which shows Blakeney Point, a coastal spit in Norfolk.

A full key appears on page 28.

(i) Put one of the following labels in each box to identify some of the main features of this coastline.

salt marshes sand nature reserve shingle

(ii) How do transport and deposition contribute to the formation of a spit?
(c) Describe how landforms affect the lives of people living along the coast. Use examples at named place(s) to help your answer.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 7 question
Theme 8 – Weather and Climate

2. (a) Study the maps of the Canary Islands below.

(i) Which of the Canary Islands is the most easterly? Underline the correct answer below. [1]

La Gomera  Lanzarote  El Hierro

(ii) Use information from the maps to give two facts about the location of the Canary Islands. [2]
(b) Study the climate data, newspaper article and the photograph below.

Climate data for Las Palmas

<table>
<thead>
<tr>
<th></th>
<th>January</th>
<th>August</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average temperature °C</td>
<td>20.6</td>
<td>27.1</td>
</tr>
<tr>
<td>Rainfall mm</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>Hours of sunshine</td>
<td>191</td>
<td>294</td>
</tr>
</tbody>
</table>

**Canary Islands wildfires: thousands flee as fires threaten forests**

More than 4,000 residents in La Gomera and Tenerife were evacuated as firefighters struggled to stop fires spreading. In 2012 Tenerife had the driest winter for 70 years. The temperatures in August 2012 were 40°C and it was very windy.

Use the information to suggest why some of the islands suffered fires in 2012. [3]
(c) Weather hazards in the UK are associated with high and low pressure systems.

(i) Complete the columns below by adding **two** high pressure and **two** low pressure weather hazards.

<table>
<thead>
<tr>
<th>High pressure</th>
<th>Low pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather hazard 1</td>
<td></td>
</tr>
<tr>
<td>Weather hazard 2</td>
<td></td>
</tr>
</tbody>
</table>

(ii) For any **one** weather hazard you have studied describe how it can affect the natural environment. [4]
(d) The following factors affect the weather and climate of the UK. These include:

altitude  air masses  distance from the sea  aspect  latitude

For any two of these factors describe how they can create variations in weather and climate in the UK.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 8 question
3. (a) Study the graph below.

Deforestation in the Brazilian Amazon, 1988-2011 (square kilometres)

(i) In which year was deforestation greatest? 
Underline the correct answer below. [1]

1995 2002 2004

(ii) Describe the trend in deforestation between 2004 and 2011. [2]
(iii) Study the photograph below.

Photograph of recently felled tropical trees

Describe how the photograph shows negative effects of deforestation. [3]
(b)  

(i) Deforestation is an unsustainable use of an ecosystem. Complete the table below with two sustainable and two other unsustainable uses of an ecosystem.  

<table>
<thead>
<tr>
<th>Sustainable</th>
<th>Unsustainable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use 1</td>
<td></td>
</tr>
<tr>
<td>Use 2</td>
<td></td>
</tr>
</tbody>
</table>

(ii) Describe two ways in which an ecosystem you have studied is being managed.  

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(c) Describe how the physical environment interacts with living things in one biome (large scale ecosystem) you have studied.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 9 question
SECTION B – HUMAN OPTIONS

Answer at least one question from this section, but no more than two.

Theme 10 – Tourism

4. (a) Study the graph below.

The number of tourists visiting different parts of the world (millions)

(i) Which part of the world had most tourists visiting in 2013? [1]
Underline the correct answer below.

Europe  Middle East  Americas

(ii) Describe the trend in tourists to Asia and the Pacific. [2]

(iii) Explain the overall change in tourist numbers shown on this graph. [3]
(b) Study the map and table below.

Host Cities of the Football World Cup (2014) in Brazil

Overseas tourists visiting Brazil (thousands) each year (2007-2011)

<table>
<thead>
<tr>
<th>Year</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5,025</td>
<td>5,050</td>
<td>4,802</td>
<td>5,161</td>
<td>5,400</td>
</tr>
</tbody>
</table>

(i) Use the information to complete the following sentences. [4]

The number of overseas tourists to Brazil has ..................................................................

The number of cities hosting matches is ..........................................................

Most of the venues are located ..........................................................................................................................

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

The most westerly venue is .............................................................................
(ii) Explain why the arrival of large numbers of tourists can have a negative impact on any country or region you have studied. [4]

(c) Describe how tourism can be developed in a sustainable way. Use one or more named locations to help your answer. [6 + 4]

*Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.*
5. (a) Study the graph below.

**Weight of cut flowers grown in Kenya and sold to other countries (tonnes)**

(i) What are goods sold to other countries known as? **Underline** the correct answer below. [1]

- imports
- products
- exports

(ii) Describe the trend shown by the graph. Use figures in your answer. [2]

(iii) Describe the advantages that this trend could have for some people living in Kenya. [3]
(b) (i) Many European city centres have different features during the day and at nighttime. Complete the table below with two daytime features and two nighttime features.

<table>
<thead>
<tr>
<th>Daytime</th>
<th>Nightime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 1</td>
<td></td>
</tr>
<tr>
<td>Feature 2</td>
<td></td>
</tr>
</tbody>
</table>
(ii) The maps below show how population of one city changes by day and night.

Maps showing the population of a city during the daytime and night time

Daytime Population

Night time Population

Describe the change shown and suggest reasons for the change. [4]

Change

Reasons
(c) UK consumers now have a lot of choice. For example, they can buy fresh vegetables that have been grown all over the world. Explain why changes in retailing and consumer choice are having effects on the environment. Use one or more examples to help your answer. [6 + 4]

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 11 question
Theme 12 – Economic Change and Wales

6. (a) Study the table below.

Amount of coal produced in Wales (2009-2011)

<table>
<thead>
<tr>
<th>Million tonnes</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep mined</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Surface mining</td>
<td>1.6</td>
<td>1.7</td>
<td>2.1</td>
</tr>
</tbody>
</table>

(i) To which sector of the economy does coal mining belong?
Underline the correct answer below.

primary secondary tertiary

(ii) Describe the trends in coal produced in Wales shown by the data.

(iii) Suggest reasons for these trends in coal production.
(b) Study the photograph below.

A surface coal mine in South Wales

Suggest problems associated with surface coal mining. Use the photograph to help you. [4]

(c) (i) Match the following terms to the correct definitions below to show how patterns of work are changing in Wales. There are two incorrect definitions. [4]

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mechanisation</td>
<td>Many firms have their headquarters in Asia or elsewhere in the world</td>
</tr>
<tr>
<td>multi-national companies</td>
<td>The economic benefit of creating new jobs</td>
</tr>
<tr>
<td>diversification</td>
<td>A shift in jobs from manufacturing to jobs that provide a service</td>
</tr>
<tr>
<td>de-industrialisation</td>
<td>The use of machines to replace human labour</td>
</tr>
<tr>
<td></td>
<td>Jobs that get raw materials</td>
</tr>
<tr>
<td></td>
<td>Developing new ways of creating jobs and income</td>
</tr>
</tbody>
</table>
(ii) Describe how farming is changing in Wales.

Marks for spelling, punctuation and the accurate use of grammar are allocated to this question.

End of Theme 12 question

END OF PAPER