GCSE  
4232/01

GEOGRAPHY  
(Specification A)

FOUNDATION TIER

UNIT 2 Options Geography

A.M. MONDAY, 18 June 2012

1 hour 15 minutes

For Examiner’s Use Only

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TOTAL

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.

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.
SECTION 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 OS map extract below. A full key appears at the back of the booklet.

   ![Map Image]

   Source: © Crown copyright and/or database right.
   All rights reserved. Licence number 100020034

   (i) In which of the following grid squares would you find the Dock? Underline the correct answer below.

       3283     3184     3384

   [1]

   (ii) Give two other examples of land uses shown on the map.

   [2]
(iii) Give **three** pieces of **map evidence** which show that there is a high risk of coastal flooding in the area. [3]

1. .......................................................................................................................................................................................
2. .......................................................................................................................................................................................
3. .......................................................................................................................................................................................

(b) Sea-levels are predicted to rise in many parts of the world which increases the risk of coastal flooding.

Describe **two** ways in which sea-level rise may affect people. [4]

1. .......................................................................................................................................................................................
2. .......................................................................................................................................................................................
3. .......................................................................................................................................................................................
4. .......................................................................................................................................................................................
5. .......................................................................................................................................................................................
6. .......................................................................................................................................................................................
7. .......................................................................................................................................................................................
8. .....................................................................................................................................................................................
(c) Study the photograph below.

(i) Put one of the following words in each box to identify the correct coastal landform.

| bay | arch | cave | headland | cliff | stack |

Examiner only
(ii) Explain, using named processes, how one of these landforms has been formed. You must draw diagram(s) to help your answer. [6]

Name of landform

End of Theme 7 question
2. (a) Study the weather map below which shows a depression in March 2011.

(i) Give the pressure at the centre of the depression. Underline the correct answer below. [1]
- below 976
- 976
- above 976

(ii) Give two weather conditions associated with a depression. [2]

(iii) Explain how one of these weather conditions can affect businesses in the UK. [3]
(b) Study the map below which shows the storm track of Hurricane Earl between August 28 and September 3, 2010.

(i) Use the map and the satellite image to complete the following paragraph. Choose from the words below. [4]

<table>
<thead>
<tr>
<th>Bahamas</th>
<th>Atlantic</th>
<th>south westerly</th>
<th>10°N</th>
<th>Pacific</th>
<th>Caribbean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windward Islands</td>
<td>19°N</td>
<td>north westerly</td>
<td>Guyana</td>
<td>60°W</td>
<td>south easterly</td>
</tr>
</tbody>
</table>

Hurricane Earl moved away from the Leeward Islands which are at a latitude of \(10°N\) on August 30.

It moved in a \(\text{south westerly}\) direction towards the Dominican Republic and the \(\text{Atlantic}\). The storm then moved north easterly along the \(\text{Caribbean coastline}\) of the USA causing many problems to local people.
(ii) Describe two hazards associated with tropical storms. [4]

1. ..............................................................................................................................................................................................

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2. ..............................................................................................................................................................................................

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(iii) Using one or more examples explain ways in which the effects of tropical storms can be reduced. [6]

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

Map showing some large scale global ecosystems (biomes)

(i) In which ecosystem would you find the annual temperature pattern shown on the graph? Underline the correct answer below. [1]

Tundra                           Hot Desert                           Tropical Rainforest

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

(iii) Describe the global distribution of the tundra ecosystem. [3]
(b) Complete the following paragraph using words from the list below. [4]

<table>
<thead>
<tr>
<th>birds</th>
<th>evaporation</th>
<th>recycling</th>
<th>photosynthesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>rocks</td>
<td>food chain</td>
<td>litter</td>
<td>roots</td>
</tr>
</tbody>
</table>

An ecosystem contains both living and non-living parts. The living part includes such things as plants, insects and .............................................. The non-living part of an ecosystem includes solar energy and .............................................. Solar energy is taken in by plants through the process of .............................................. and nutrients from the soil are taken up by the .............................................. of plants.

(c) Look at the line A-B on the map and the diagram below.

Suggest how the changes in vegetation across Africa are influenced by climate. [4]
(d) Describe and explain ways in which people use ecosystems. Use one or more examples to help your answer. [6]
SECTION B – HUMAN OPTIONS

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

Theme 10 – Tourism

4. (a) Study the map below which shows Greece, a popular tourist destination.

(i) Give the distance between Athens and Cythera. Underline the correct answer below. [1]

100 km  200 km  300 km

(ii) Describe the location of the island of Lefkada. [2]

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(b) Study the photograph below which shows the village of Syvota on the island of Lefkada.

(i) Suggest why the natural landscape of this area attracts tourists. [3]

(ii) Suggest reasons why tourism is important to places such as Lefkada. [4]
(iii) At present this part of Greece does not attract large numbers of tourists. Give **two** ways in which large numbers of tourists could have negative effects on: 

[4]

**People**

1. .......................................................................................................................................................................................

2. .......................................................................................................................................................................................

**The environment**

1. .......................................................................................................................................................................................

2. .......................................................................................................................................................................................

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(c) Study the information below which shows some of the ways in which the nature of tourism is changing.

| Long Haul Flights | Ecotourism | More Short Breaks |

Use these headings or your own examples to explain two ways in which the nature of tourism is changing.

End of Theme 10 question
Theme 11 – Retail and Urban Change

5. (a) Study the information and the photographs below.

Percentage of different types of stores of one supermarket chain in a large city.

<table>
<thead>
<tr>
<th>‘Extra’ Stores</th>
<th>‘Superstores’</th>
<th>‘Metro’ Stores</th>
<th>‘Express’ Stores</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>29%</td>
<td>11%</td>
<td>50%</td>
</tr>
</tbody>
</table>

Largest stores  →  Smallest stores

A                B

(i) Give the percentage of ‘extra’ stores in this city. Underline the correct answer below. [1]

5%  10%  15%

(ii) Give two ways in which photograph A shows that this store is located on the outskirts of the city. [2]
(iii) Explain why the store in photograph B is likely to sell a much smaller range of goods.  

(b) Study the graph below.

**people of different ages who use the Internet**

![Bar graph showing internet usage by age group]

<table>
<thead>
<tr>
<th>Age group</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 - 24</td>
<td>90%</td>
</tr>
<tr>
<td>25 - 44</td>
<td>95%</td>
</tr>
<tr>
<td>45 - 54</td>
<td>80%</td>
</tr>
<tr>
<td>55 - 64</td>
<td>65%</td>
</tr>
<tr>
<td>65+</td>
<td>35%</td>
</tr>
</tbody>
</table>

**Key**
- Blue: Within the last 3 months
- Pink: More than 3 months ago
- White: Never used

(i) Use information from the graph to complete the following description. Circle the correct answers.

In the UK the internet is used by large numbers of people. The most frequent users are in the **16-24 / 45-54 / 65+** age group.

In the 16-24 age group **92 / 96 / 99** percent used the internet in the last 3 months.

In the 65+ age group **25 / 29 / 35** percent of people used the internet in the last 3 months and **60 / 65 / 70** percent never used the internet.
(ii) Suggest why the growth of internet shopping can be both a benefit and a problem. [4]

<table>
<thead>
<tr>
<th>Benefit</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
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<table>
<thead>
<tr>
<th>Problem</th>
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<td></td>
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<td></td>
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<td></td>
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</tbody>
</table>
(c) People in the UK have more and more choice of goods to buy. Many of these goods come from developing countries (LEDCs). Explain two effects of this on people in LEDCs. [6]
6. (a) Study the map below.

**Map of large power stations in Wales in 2011**

(i) How many power stations shown on the map burn fossil fuels? Underline the correct answer below. [1]

- 2
- 6
- 8
- 9

(ii) Fossil fuels are non-renewable sources of energy. What does *non-renewable* mean. [2]
(iii) Nuclear energy is also used in Wales. Describe the location of the nuclear power station in Wales. [3]

(iv) Complete the following paragraph using words from the list below. [4]

<table>
<thead>
<tr>
<th>waste</th>
<th>Dinorwig</th>
<th>non-renewable</th>
<th>tidal</th>
<th>coal</th>
<th>renewable</th>
<th>Deeside</th>
<th>trees</th>
<th>Wylfa</th>
<th>cattle</th>
</tr>
</thead>
</table>

The physical geography of Wales with its mountains, rivers and coastline make it suitable for the development of several types of energy such as wind, ......................... and hydro. There are many small hydro-electric power stations in Wales and two bigger schemes, one of which is located at .......................... Wales also aims to plant more .......................... and grasses so as to increase the use of biomass energy.
(b) Study the photograph below which shows an area of Mid Wales.

Use evidence from the photograph and your own knowledge to suggest why some people were against the building of this wind farm. [4]
(c) What are the arguments for using non-renewable energy? [6]

End of Theme 12 question