

Tuesday 18 June 2013 – Afternoon

GCSE GEOGRAPHY A

A674/01 Issues in our Fast Changing World (Foundation Tier)

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

- Resource Booklet (A674/01/02/RB – previously supplied)

Duration: 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **50**.
- You will be awarded marks in questions 2(d)(ii), 3(a)(ii) and 3(c) for the quality of written communication of your answer.
- This document consists of **12** pages. Any blank pages are indicated.

1 (a) Study Resource 1.

(i) Complete each sentence by choosing from the options A–F below. One has been done for you.

- The Earth’s climate is
- Levels of emissions are
- Carbon dioxide is D
- The amount of polar ice is

- A increasing around the world.
- B getting warmer.
- C staying the same.
- D one of the main greenhouse gases.
- E decreasing.
- F getting cooler.

[3]

(ii) Why do scientists think that the Earth’s climate will continue to get warmer?

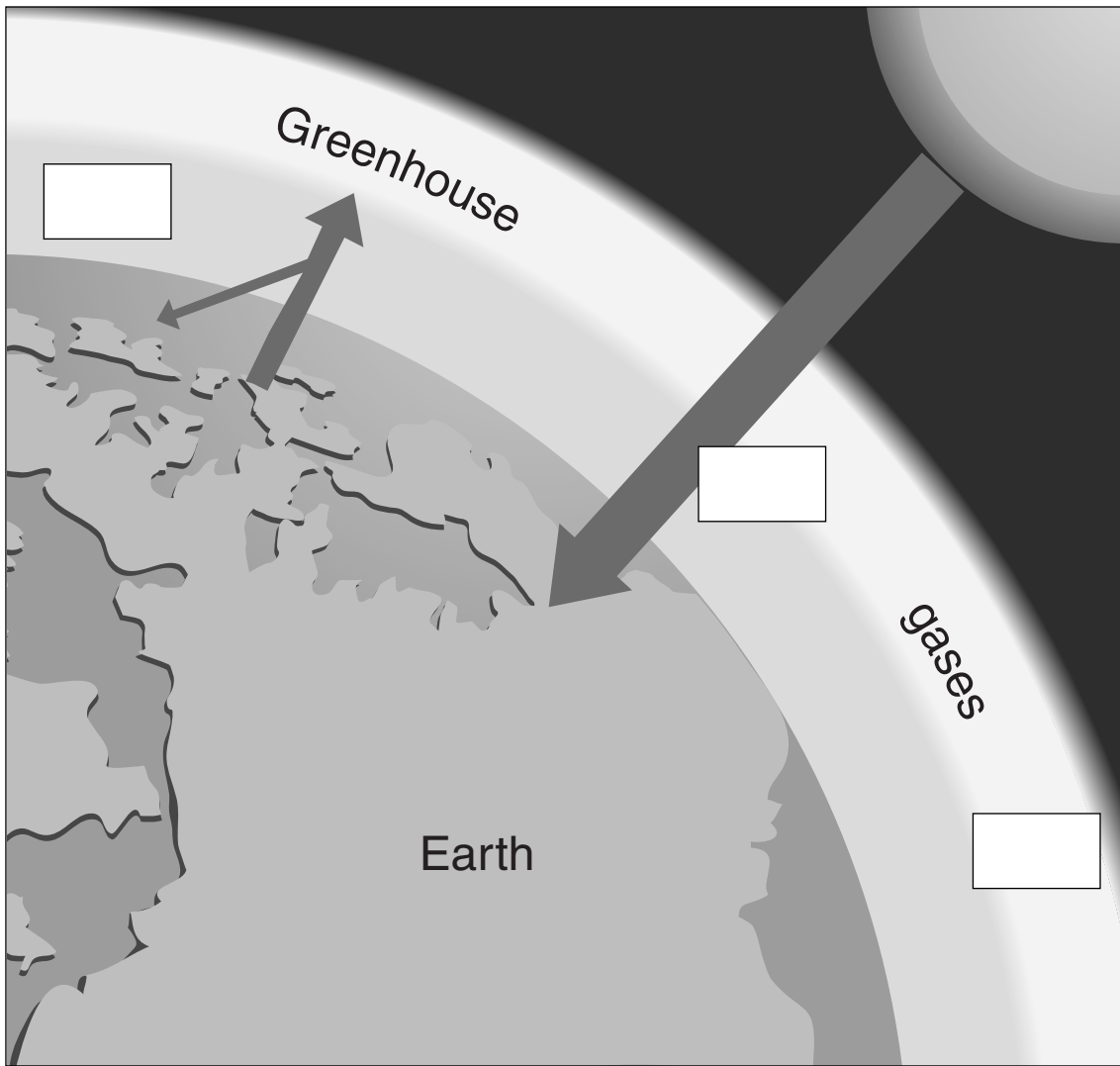
.....
.....
.....
..... [2]

(b) Study Resource 2.

(i) The build-up of greenhouse gases causes global temperatures to rise. Choose **three** of the following statements to explain why. Write the numbers in the correct boxes on the diagram opposite.

1. Greenhouse gases form a layer in the atmosphere.
2. There is nothing to stop the heat from escaping.
3. Greenhouse gases make a hole in the atmosphere.
4. The sun’s rays can pass through the layer of greenhouse gases.
5. The heat is trapped by the greenhouse gases.
6. All the heat from the Sun is reflected back into space.

[3]



(ii) How can a change in the amount of greenhouse gases in the atmosphere cause global warming?

.....

.....

.....

..... [2]

2 (a) Study Resource 3.

Circle the correct answers to complete the paragraph below.

The greenhouse effect was first described in **1827 / 1987 / 1997**.

The first World Climate Conference discussed

sea level rise / the Kyoto Protocol / whether global warming was happening.

The main evidence to suggest that global warming is happening is

higher temperatures / lower temperatures / the same temperatures.

[3]

(b) Study Resource 4.

Explain how **two** of the following cause climate change:

- sunspot activity
- volcanic eruptions
- changes in the Earth's orbit

Choice 1

.....

.....

.....

.....

Choice 2

.....

.....

.....

.....

[4]

(c) Study Resources 5 and 6.

Select (✓) the **three** statements below which are true.

China produces more carbon dioxide than any other country.

Japan has higher carbon dioxide emissions per person than Canada.

USA is the second largest contributor to global carbon dioxide.

Germany has the highest carbon dioxide emissions per person.

South Korea produces 2% of the global carbon dioxide emissions.

[3]

(d) Study Resources 7 and 8.

(i) Identify **four** impacts of global warming on the natural environment.

Impact 1

.....

Impact 2

.....

Impact 3

.....

Impact 4

.....

[4]

(ii) Describe **two** of the impacts of global warming and suggest how they affect people.

Impact 1

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

Impact 2

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

[6]

3 (a) Resource 9 shows two different approaches to climate change.

(i) Select **four** examples from Resource 9 to complete the table correctly.

Two examples have been done for you.

<p style="text-align: center;">Adapt</p> <p style="text-align: center;">this helps people live with the impacts of climate change</p>	<p style="text-align: center;">Mitigate</p> <p style="text-align: center;">this helps to slow down the rate of climate change</p>
<p style="text-align: center;">Farmers planting different crops</p>	<p style="text-align: center;">Increased use of public transport</p>

[4]

(ii) Choose any **two** examples from Resource 9.

Explain why each one may be useful in dealing with climate change.

Example 1

.....

.....

.....

.....

.....

Example 2

.....

.....

.....

.....

.....

[6]

(b) Study Resource 10.

Complete the following paragraph using words from the box below.

three	Kenya	treatment	furniture making
pollution	two	fishing	Ethiopia

The growth of the water hyacinth around Lake Victoria in

..... is a major problem.

A combination of water

and global warming has made the problem worse. The plant grows very

quickly and can double in size every weeks.

Parts of the lake can no longer be used by people for traditional activities such as

.....

[4]

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margins.

A large area of lined paper for writing answers. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.

A vertical solid line is positioned on the left side of the page. From this line, 25 horizontal dotted lines extend across the page, creating a series of rows for writing.

A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.



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