

Surname	Centre Number	Candidate Number
Other Names		0



**GCSE**

4242/01

**GEOGRAPHY  
SPECIFICATION B  
FOUNDATION TIER  
UNIT 2  
SECTION A**

A.M. WEDNESDAY, 12 June 2013

30 minutes

<b>For examiner's use only</b>	
<b>Question 1</b>	30

This paper is to be collected in after 30 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 **all** parts of this question in parts (a) to (d). There is a choice in part (e).

Write your answers in the spaces provided in this booklet.

If additional space is required you should use the continuation lines at the end of this booklet. The question number(s) should be clearly shown.

**INFORMATION FOR CANDIDATES**

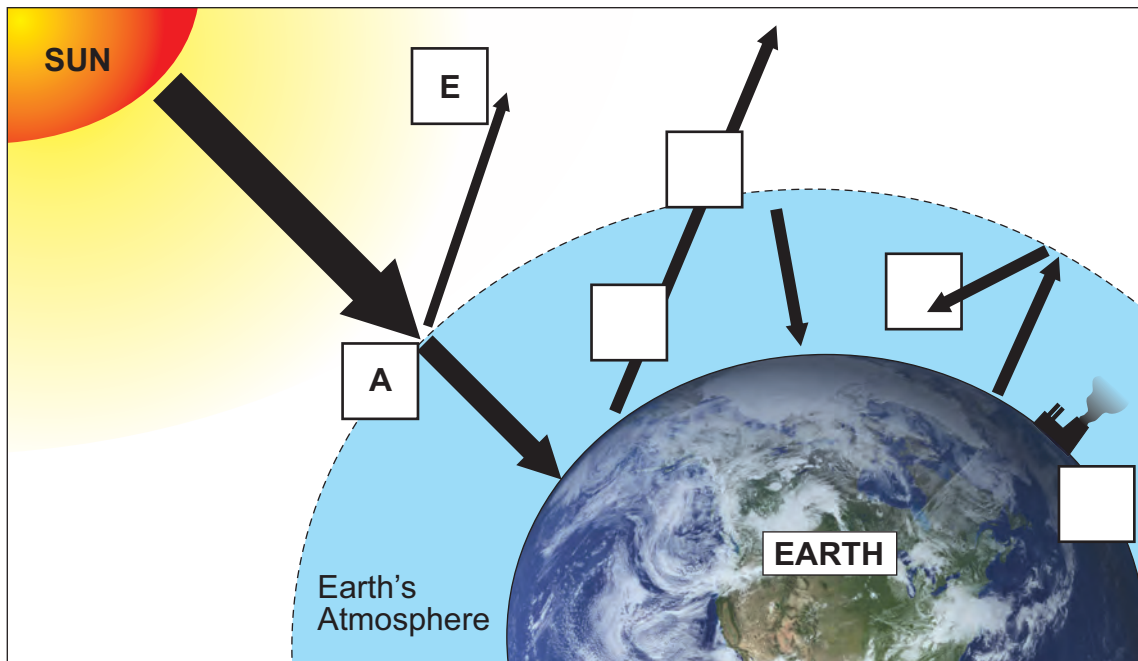
The number of marks is given in brackets [ ] at the end of each question or part-question.

You are reminded that assessment will take into account the quality of written communication used in the case study question.

**Theme 3: PEOPLE, WORK AND DEVELOPMENT**

Answer **all** parts of (a) to (d) in this question. There is a choice of question in (e).




1. (a) Study the diagram below which shows the Greenhouse Effect.



- (i) Describe how the 'Greenhouse Effect' works by adding letters from the box to label the diagram above. *Two have been done for you.* [4]

<b>A</b>	Radiation from the Sun passes into the atmosphere.	<b>D</b>	Some of the Sun's radiation is absorbed by the greenhouse gases in the Earth's atmosphere. This warms the Earth.
<b>B</b>	Some of the Sun's radiation is reflected from the Earth's surface into the atmosphere.	<b>E</b>	Some of the Sun's radiation is reflected back into space.
<b>C</b>	Some of the Sun's radiation passes through the Earth's atmosphere back into space.	<b>F</b>	Human activities have increased the amount of greenhouse gases in the Earth's atmosphere, for example, burning fossil fuels in power stations.

- (ii) Coal fired power stations are one source of greenhouse gases. Tick (✓) **two** boxes below to show **two other** human activities which are sources of greenhouse gases. [2]

		Tick (✓)
	Cars and aeroplanes	
	Planting trees	
	Landfill sites	
	Operating wind farms	

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- (iii) Explain **two** ways that an increase in global temperatures is affecting people. [4]

First way: .....

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Second way: .....

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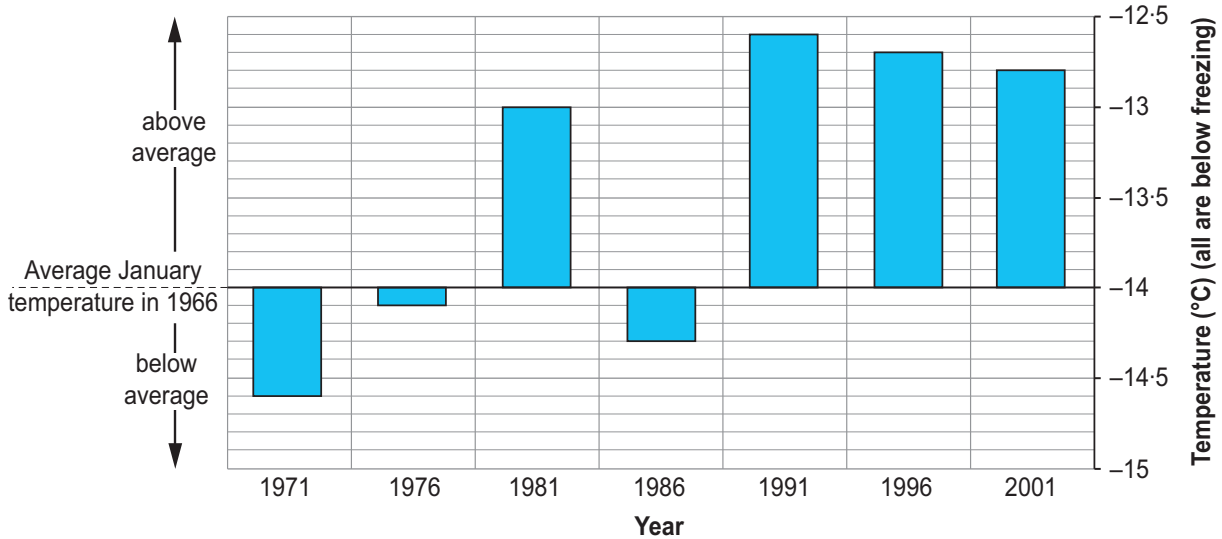
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(b) Study the information below about the Altai Mountains.



Study the graph below. It shows recent changes in the average January temperature in the Altai Mountains.



- (i) Circle the correct answers in the passage below to describe how the January temperatures in the Altai Mountains have changed since 1966. [2]

Since **1976 / 1981 / 1991** January temperatures have always been higher than they were in 1966. The largest difference in temperature was in 1991 where the January temperature was **0.4°C / 1.4°C / 4°C** higher than it was in 1966.

- (ii) Suggest **two** reasons why plant growth is difficult in mountain environments such as this. [2]

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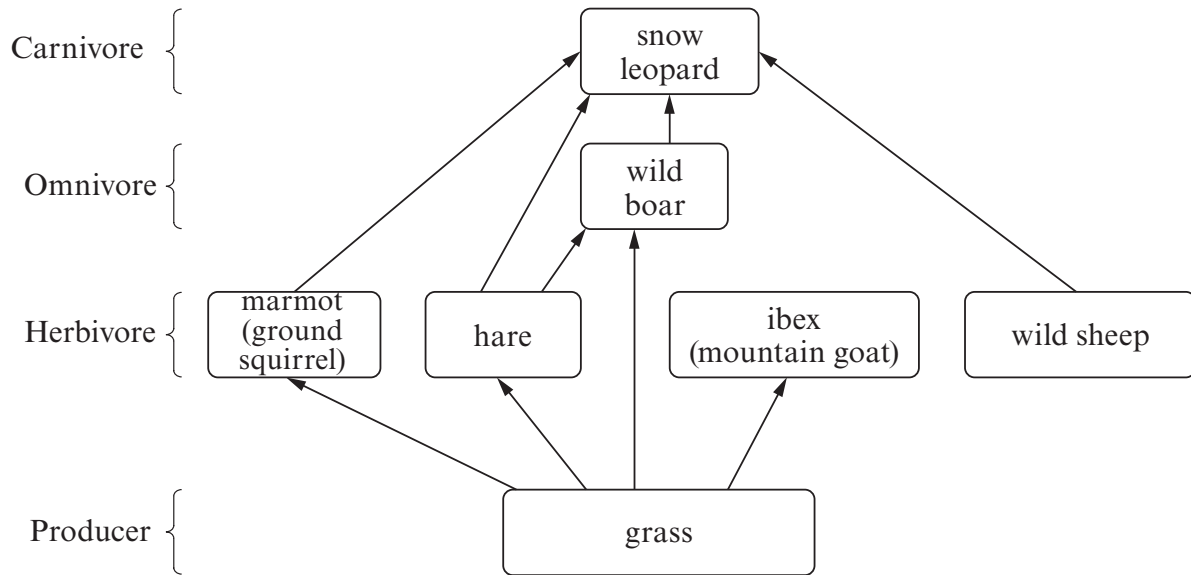
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- (c) (i) Increasing temperatures have affected the ecosystem in the Altai Mountains. What is an ecosystem? Tick (✓) the correct definition in the box below. [1]

	Tick (✓) the correct answer
The air, land and sea around us.	
A community of plants, animals and their environment.	
Natural resources that are found on land, sea and in the air.	

Study the food web below:



(ii) Complete the diagram to show that: [2]  
 wild sheep eat grass / snow leopards eat ibex

(iii) Explain how the decline in numbers of snow leopards could affect this food web. [4]

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(d) Explain ways in which people can reduce greenhouse gas emissions. [4]

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(e) **Case studies**

Answer only **one** of the questions, either (i) or (ii).

**Either**

**Tick (✓)  
one box**

(i) For a named Multinational Company (MNC or TNC):

- Name the MNC and an area in which it is located.
- Describe the effects that the MNC has on this area.
- Explain why the MNC is located in this area.

**Or**

(ii) For a country that trades with other countries:

- Name the country.
- Describe the pattern of international trade of this country.
- Explain the benefits and problems of international trade for this country.

[5]

Name: .....

Describe: .....

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Explain: .....

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**End of Theme 3**

**END OF PAPER**

**For continuation only**

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